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CONTENTS

General	4179-4230
Theory & Systems • Methods • Statistics • Reference • History • Professional problems	
Physiological Psychology	4231-4245
Nervous system	
Receptive and Perceptual Processes	4246-4291
Vision • Audition	
Response Processes	4292-4323
Complex Processes and Organizations	4324-4401
Learning & Memory • Thinking & Imagination • Intelligence • Personality	
Developmental Psychology	4402-4429
Childhood & Adolescence • Maturity & Old age	
Behavior Deviations	4430-4506
Mental deficiency • Clinical neurology • Psychoses • Psychoneuroses • Psychosomatics • Speech disorders • Mental hygiene • Therapy • Clinical psychology	
Social Psychology	4507-4581
Methods & Measurements • Cultures & Cultural relations • Social institutions • Social action • Crime & Delinquency • Art & Aesthetics	
Personnel Psychology	4582-4615
Vocational guidance	
Industrial and Business Psychology	4616-4637
Educational Psychology	4638-4657
Psychological Tests	4658-4668

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AUTHOR INDEX¹

- Abe, S., 4524
Ackerman, N. W., 4533(a)
Adams, G. L., 4455
Adelsberger, L., 4507
Albanese, P., 4445
Allers, R., 4196
Alvarez, W. C., 4456
Amstutz, Sister M., 4638(a)
Ammons, R. B., 4326(a)
Anderson, M. K., 4582
Andrews, D. H., 4197
[Anon.], 4219
Arce, D. L., 4569
Arnold, M. B., 4239(a)
Aroian, L. A., 4207
Arroyo, E. C., 4651
Arthur, G., 4658
Aschkenasy-Leiu, P., 4292
- Bach, G. R., 4570
Backstrom, O. Jr., 4583
Baier, D. E., 4584(a)
Bain, R., 4508
Baker, E., 4481
Bakwin, R. M., 4404
Balmaceda de José, E., 4608
Bare, J. K., 4293(a)
Barlow, H. B., 4250, 4251
Barnes, T. C., 4240(a)
Barnett, N. R., 4252(a)
Baumgarten, F., 4294, 4373
Baumgarten-Framer, F., 4357
Bayley, N., 4405(a)
Bear, R. M., 4639(a)
Bechtoldt, H. P., 4363(a)
Beck, L. H., 4253(a)
Bellak, L., 4374(a), 4499(a)
Bellows, R. M., 4585(a)
Bennett, G. K., 4609(a)
Benton, A. L., 4659
Bergier, E., 4430
Bernan, H. H., 4482
Bernhardt, K. S., 4179
Bernreuter, R. G., 4640(a)
Berry, R. N., 4254(a)
Berryman, G. H., 4295
Bettelheim, D., 4525(a)
Betta, G. L., 4208(a), 4576(a)
Bldney, D., 4509
Blifou, S. W., 4457(a)
Billings, R. M., 4458
Blindra, D., 4296
Blink, E. N., 4483
Blot, M. A., 4255
Bluch, H. G., 4563(a)
Blodgett, H. C., 4327
Bondy, C., 4557(a)
Bonbeck, J. R., 4231
Bordin, E. S., 4610(a)
Boring, E. G., 4220
Bowley, A. H., 4641
Brandt, H., 4586(a)
Braverman, S., 4374(a)
Bremer, G., 4570
Brillinger, H. R., 4459
Brinkmann, D., 4180
Britt, S. H., 4646(a)
Brown University, 4256
Brown, C. G., 4558(a)
Brodek, J., 4297(a), 4301(a), 4303(a)
Bruner, J. S., 4246(a), 4380(a)
Bryson, L., 4510
Bugelski, B. R., 4328(a)
Bühler, C., 4559(a)
Burntin, J., 4431
Burt, C., 4364
Burton, A., 4432
Buxton, C. E., 4587
- Cahalan, D., 4519(a)
California Council of Personnel Management, 4588
Cantril, H., 4375
Carp, A., 4301(a)
Case, W. A., Jr., 4501(a)
Castedo, C., 4490
Castell, R. B., 4376, 4380(a)
Chalk, F. C., 4458
Chapanis, A., 4257, 4258, 4259, 4260, 4278, 4616(a), 4617, 4618, 4619
Chapple, E. D., 4511
Chard, R. D., 4660(a)
Chastain, M., 4329
Chavez, L., 4571
Chen, I., 4532(a)
Cherubino, A. F., 4406
Christensen, J. M., 4620(a)
Christensen, W. R., 4232
Citron, A. F., 4531(a), 4560(a)
- Clark, P. E., 4642
Cone, J. L., 4241
Cook, S. W., 4530(a)
Coombs, C. H., 4209(a)
Coon, C. S., 4511
Cooper, C. C., 4561(a)
Coppock, H., 4358(a)
Cornell, R. J., 4572
Cottender, R. M., 4181(a)
Covey, F., 4648(a)
Cousins, N., 4562
Covner, B. J., 4589(a)
Criswell, J. H., 4605(a)
Cronbach, L. J., 4222(a)
Crook, M. N., 4621(a)
Cummins, G. M., 4234
Cuppa, R. D., 4643
Cureton, E. R., 4365(a)
Cushing, J. R., 4333
- Dabstein, D. H., 4225(a)
Dale, J. T., 4210(a)
Dambuyant, M., 4360
Daniel, R. S., 4403(a)
Daniel, W. J., 4330(a)
D'Arcy, M. C., 4198
Davis, D. R., 4622
Davis, J. F., 4311(a)
Davis, R. C., 4298(a)
de Gruchy, C., 4428
Deri, S. K., 4446(a)
Despert, J. L., 4447
Dickmeis, P. G., 4573
DilMichael, S. G., 4225(a)
Doe, J., 4484
Dorcia, R. M., 4299
Dressel, P. L., 4644(a)
Dubin, S. S., 4448(a)
Dublin, J., 4477
Dubrovsky, R., 4445
Dudek, F. J., 4211(a)
Dunlop, F. S., 4645
Duval, A. M., 4460
- Eastman, B., 4407
Ebaugh, F. G., 4461
Edgerton, H. A., 4646(a)
Edlin, G., 4182
Edwards, A. L., 4521(a)
Egan, J. P., 4345(a)
Eguiluz López, B., 4647
Ehrenfreund, D., 4331(a)
Eisner, P. E., 4377(a)
Ekstein, K., 4199(a), 4374(a)
Elizarraras, F. G., 4498
Ellison, D. G., 4623(a)
Engelson, M., 4183
Ericson, M., 4499(a)
Espenshade, A., 4526
Etchegoyen, J. C., 4490
Evans, C., 4462
Evans, M. C., 4532(a)
- Faergeman, P., 4449
Farber, I. E., 4300(a)
Favre, A., 4512
Fayer, M., 4221, 4624
Fensterheim, H., 4563(a)
Findley, W. G., 4513(a), 4648(a)
Finelstein, L., 4510
Fitts, P. M., 4625(a)
FitzGerald, W. J., 4590
Flowerman, S. H., 4527(a)
Franklin, J. C., 4297(a), 4301(a), 4303(a)
Fraps, R. M., 4302
Fremming, K. H., 4574
Fries, H. S., 4184
Fry, G. A., 4261
- Gallagher, B. G., 4528
Garner, W. R., 4285(a)
Garrido, L., 4575
Geert-Jørgensen, E., 4485
Gesell, A. L., 4408, 4444
Gesell, R., 4242
Getzoff, P. L., 4469
Gilliland, R., 4661(a)
Gillinsky, A. S., 4378(a)
Girard, V., 4370
Gittelmann, M., 4429
Glad, D. D., 4529(a)
Goode, W. J., 4546
Gordon, N., 4544(a)
Graber, G. H., 4200
Graham, C. H., 4500
Grant, D. A., 4332(a)
Graubard, M., 4547
Gray, F., 4623(a)
Gray, H., 4379
Greene, J. E., 4513(a), 4548(a)
Greene, J. S., 4475
- Grether, W. F., 4274, 4626(a), 4636(a)
Grice, G. R., 4333(a)
Griffiths, W. J., Jr., 4233
Groen, J. J., 4286
Grossman, M. I., 4234
Grubba, F. E., 4215
Guetzkow, H., 4297(a), 4301(c), 4303(a)
Guilford, J. P., 4212(a)
- Hana, M., 4530(a)
Haggard, E. A., 4304(a)
Hahn, M. E., 4226(a), 4650(a)
Haier, M., 4334
Hall, C. S., 4305(a)
Hall, W. E., 4335
Halstead, W. C., 4262(a)
Hanfmann, E., 4380(a)
Harding, J., 4531(a), 4560(a)
Hardy, L. H., 4263
Harris, A. J., 4662(a)
Harris, C. W., 4222(a)
Harris, D. B., 4366(a)
Hartmann, G. W., 4409(a)
Harvard University, Graduate School of Business Administration, 4264, 4265, 4266, 4267, 4268
Harwood, D. M., 4269
Hansen, E. T., 4242
Hansman, H. J., 4591(a)
Hayner, N. S., 4643
Hebb, D. O., 4336(a)
Heerema, P. H., 4486
Heidbreder, E., 4359
Hemphill, J. K., 4323(a)
Henderson, C. R., 4295
Henderson, R. H., 4627(a)
Hermann, K., 4649
Hewes, D., 4462
Higgins, E. L., 4261
Hill, H., 4623(a)
Hincks, C. M., 4433
Hinsland, H., 4434
Hoffman, A. C., 4621(a)
Hoffman-Bang, A., 4306
Hogrefe, R., 4532(a)
Holt, R. R., 4381(a)
Holzapfel-Meyer, M., 4307
Hormann, B., 4548
Horrocks, J. R., 4663
Houtchens, H. M., 4576(a)
Howell, M. V., 4605(a)
Hui, E. H., 4394(a), 4395
Humes, J. F., 4592(a)
Humm, D. G., 4382(a)
Humm, K. A., 4382(a)
Hunt, H. F., 4501(a)
Hunter, W. W., 4655
Hurt, J. H., 4487
Hurwitz, S., 4577
Hutchinson, D. F., 4593
- Irving, J. A., 4564
Irwin, J. R., 4383
Irwin, O. C., 4410(a)
Ivy, A. C., 4234
- Jahoda, M., 4533(a)
James, W. T., 4337
Jampolsky, P., 4270
Janowitz, M., 4525(a)
Jenkins, R. L., 4478(a)
Jensen, M. B., 4463(a)
Johnson, D. M., 4367(a)
Johnson, E. P., 4271(a), 4276(a)
Jones, H. E., 4304(a), 4411, 4412
Jongkees, L. B. W., 4286
Jørgensen, J., 4435
Joseph, A., 4545
- Kappauf, W. E., 4272(a)
Kaplan, M. D., 4628(a)
Kata, E., 4488
Kay, L. W., 4565
Kellogg, W. N., 4243(a)
Kendall, W. R., 4650(a)
Kende, T. N., 4463(a)
Kendler, H. H., 4338(a)
Kennedy, J. L., 4238(a), 4308(a)
Keya, A., 4297(a), 4301(a), 4303(a)
Kielholz, A., 4464, 4465, 4578
Kilpatrick, F. P., 4521(a)
Kimble, G. A., 4339(a)
Kinder, E. P., 4384(a)
Kinsler, J. R., 4663
Kitay, P. M., 4549
Klee, J. B., 4201
Koester, T., 4287
- Kogan, L. S., 4340(a)
Kohler, M., 4370
Kohn, H. I., 4250, 4251
Koller, A., 4436, 4466
Kopp, H., 4185, 4186, 4187, 4385
Kornhauser, A., 4522(a), 4629
Kubo, J., 4534
Kuppumaway, B., 4368
Kurland, A. A., 4245
Kyle, W. M., 4188
- Lacey, J. I., 4413(a)
Lacey, O. L., 4309(a)
Lamb, M. W., 4414
Lambert, C., 4415
Landis, C., 4189
Landis, J. T., 4550
Lane, K. K., 4594
Lapan, A., 4437
Lasswell, H. D., 4551
Lawrence, D. H., 4341(a)
Lawrie, C. H., 4595(a)
Laycock, S. R., 4416, 4417, 4552
Lazarfeld, P. F., 4213(a)
Lazovik, A. D., 4310
Leader, A. L., 4489
Lee, A. M., 4366(a)
Leeper, R., 4342(a)
Leib, A., 4535
Levinson, D. J., 4386(a)
Levy, D. M., 4401(a)
Levy-Valensi, J., 4223
Lewinsky, H. L., 4418
Licht, M., 4387
Liddy, R. B., 4227
Lind, A. W., 4536
Ling, B., 4414
Locks, R. B., 4630(a)
Love, W. R., 4476
Low, F. N., 4273
Lundin, R. W., 4664(a)
Lurie, L. A., 4470
Lyonnet, J. H., 4490
- McCutchan, K., 4327
McGinnies, E., 4246(a)
Maciver, R. M., 4510
McMurry, R. N., 4596
Mahl, G. F., 4235(a)
Mahler, W. R., 4597
Malmo, R. B., 4274, 4311(a)
Malmquist, S., 4214
Marr, A., 4312
Markey, S. C., 4388(a)
Marquis, D. G., 4195
Marshall, H., 4438(a)
Martin, H. W., 4471(a)
Maslow, A. H., 4567
Matheny, W. G., 4323(a)
Mathews, W. M., 4491(a)
Maurer, K. M., 4514(a)
Mayman, M., 4389(a)
McIl, R., 4369
Meister, R., 4537
Meister, R. K., 4426(a)
Meng, H., 4472, 4479
Menninger Foundation, 4228
Meyerson, I., 4224, 4360
Meyerson, L., 4288(a)
Michaels, J. J., 4492
Miller, D. L., 4190
Miller, G. A., 4289(a)
Miller, N. E., 4343(a)
[Minnesota Society for Applied Psychology], 4229
Mitchell, P. H., 4627(a)
Mold, H. P., 4598
Montandon, R., 4191
de Montpelier, G., 4313
Moore, W., 4502
Moore, H., 4599(a)
Moore, J. E., 4611(a)
Moore, T. V., 4394(a)
Moore, W. E., 4631
Morf, C., 4192
Morgenthaler, W., 4390
Morgenthau, H. J., 4553
Morre, A. P., 4215
Morse, J. E., 4434
Möschlin, E., 4419
Moulouy, A. C., 4202
Mower, O. H., 4324(a), 4358(a)
Munch, P. A., 4538
von Murali, A., 4493
- Nahm, M. C., 4580
Naumburg, M., 4503
Neal, L. H., 4227
Neher, B. H., 4302
Norman, R. D., 4646(a)
Ogata, C., 4594
- Orleans, J. S., 4600¹¹
O'Toole, C. E., 4468
- Page, H. E., 4601(a)
Paterson, A. S., 4494
Patton, R. A., 4310, 4314(a)
Pearce, J. D. W., 4579
Pechoux, R., 4370
Pedersen, R. A., 4665(a)
Pepinsky, H. B., 4495(a)
Pepinsky, P. N., 4495(a)
Pepper, S. C., 4203
Perilhou, P., 4247
Peters, M. O., 4504
Phillips, E. L., 4505(a)
Pinson, E. A., 4260
Pintler, M. H., 4422
Piculich, E. R., 4651
Pollack, I., 4290(a)
Porterfield, A. L., 4554
Portis, S. A., 4473
Postman, L., 4246(a), 4345(a)
Potter, K. H., 4391(a)
Prentice, W. C. H., 4346(a), 4347
Pressey, S. L., 4652
- Quiros Cuadrón, A., 4571
- Rabin, A. I., 4450(a)
Radde, C. A., 4261
Rademaker, J. A., 4530
Rand, G., 4263
Ranulf, S., 4540
Rashkies, H. A., 4306(a)
Rasmussen, A. T., 4244
Rees, L., 4439
Reese, T. W., 4275(a)
Reis, L., 4204
Remmers, H. H., 4541
Richard, G., 4420
Richardson, M. W., 4602(a)
Richtel, C., 4440
Richter, C. P., 4315
Riesen, A. H., 4348(a)
Ries, B. F., 4316(a)
Riggs, L. A., 4276(a)
Rittler, M. C., 4263
Roberts, S. O., 4542(a)
Robinson, H. A., 4653(a)
Roe, A., 4392
Roeder, W. S., 4666(a)
Rohheim, G., 4543
Rohracher, H., 4193
Romes, F. M., 4421
Rösch, J., 4277
Rose, D., 4402
Rosenwald, A. K., 4441(a)
Rothchild, I., 4302
Rothchild, D., 4451
Rotter, J. B., 4393(a)
Roubinovich, J., 4480
Rubinstein, H. S., 4245
Russell, E. S., 4317
Rust, R., 4401(a)
- Sackett, R. S., 4349(a)
Saenger, G., 4544(a)
Sarnson, S. B., 4391(a)
Schachter, M., 4474
Schachter, S., 4278, 4618, 4619
Schär, H., 4555
Schiller, P. H., 4350(a)
Schmidberg, M., 4467
Schneider, D. E., 4332(a)
Schoenfeld, W. N., 4287
Schoil, C. H., 4585(a)
Schorger, A. W., 4248
Schwartz, B. D., 4660(a)
Scott, J. P., 4318(a)
Scully, J., 4279
Searle, L. V., 4319(a)
Sears, P. S., 4422
Sears, R. R., 4422
Sectet-Riou, P., 4654
Segal, G., 4249
Seidenfeld, M. A., 4423(a)
Sellers, W., 4361
Seltitz, C., 4531(a)
Sewig, R., 4280
Shagan, C., 4311(a)
Shaw, D., 4452
Sheriff, M., 4568(a)
Shils, E. A., 4525(a)
Shor, J., 4653(a)
Shortt, L., 4458
Sieben, W., 4515
Siegel, P. S., 4309(a)
Silverman, S. R., 4291
Simon, B., 4453
Sinha, B. M., 4320
Siskel, J., 4242
Skeels, H. M., 4371(a)
Skodak, M., 4371(a)
Smith, J. H., 4216
- Smith, K. U., 4403(a)
Snowden, E. N., 4496
Snygg, D., 4352(a)
Solomon, R. L., 4351(a)
Spark, C. P., 4523(a)
Speer, G. S., 4612(a)
Spence, K. W., 4587
Springthorpe, G., 4424
Stafford, B. P. R., 4442
Stafford, J. W., 4394(a), 4395
Stannard, A. F. B., 4344
Stanton, T. F., 4648(a)
Starch, D., 4632(a)
Staskiewicz, B. A., 4642
Stein, M. I., 4380(a)
Stellar, E., 4321(a)
Stevens, S. S., 4194, 4220
Stewart, N., 4396(a)
Stoddard, K. B., 4281
Stokvis, B., 4322
Stone, C. P., 4372
Stone, G., 4194
Strecker, E. A., 4443
Strominger, J. L., 4231
Sundermeier, H., 4205
Symonds, P. M., 4397(a)
Szent-Györgyi, A., 4236
- Tamulonis, V. M., 4519(a)
Taylor, D. W., 4533(a)
Taylor, F. V., 4633(a)
Templin, M. C., 4425(a)
Terry, M. C., 4249
Tiemens, L., 4325
Thaler, M., 4448(a)
Thiesen, J. W., 4426(a)
Thompson, L., 4516, 4545
Thornon, M. K., 4492
Thurstone, L. L., 4237
Tibbitts, C., 4655
Todd, K. M., 4497
Torgerson, T. L., 4656
Travis, R. C., 4238(a), 4308(a)
Treleven, C. L., 4261
Trent, S. E., 4282
Triggs, F. O., 4613(a)
Trowbridge, L. S., 4614(a)
Tuckman, J., 4615
Twitchell-Allen, D., 4667(a)
- Uranga Imaz, F., 4445
U. S. Military Academy, West Point, Dept. of Military Psychology and Leadership, 4603
U. S. War Dept., Office of the Secretary, Civilian Personnel Division, 4604
- VanDusen, A. C., 4517(a)
Van Saun, H. R., 4634(a)
Vernier, C. M., 4605(a)
Viteles, M. S., 4583
Voldby, H., 4649
- Wagner-Simon, T., 4206
Wald, A., 4217
Walker, R. Y., 4323(a)
Walsh, E. G., 4250, 4251
Walsh, R., 4361
Warrick, M. J., 4635(a)
Waters, R. J., 4354(a)
Watts, A. F., 4427
Webb, W. B., 4355(a)
Weinberg, M. H., 4468
Weiss, F. L., 4398
Wessell, N. Y., 4621(a)
Wherry, R. J., 4283(a)
White, R. K., 4399(a)
Wickens, D. D., 4356(a), 4393(a)
Wiener, D. N., 4400(a), 4505(a)
Williams, A. C., Jr., 4606, 4636(a)
Williams, E., 4518
Williams, S. B., 4637(a)
Winder, C. L., 4501(a)
Witt, G., 4305(a)
Wittman, P., 4454(a)
Wolfe, H., 4230
Wolkowitz, J., 4218
Wood, W. F., 4541
Woodworth, R. S., 4195
Wright, H. W., 4362
Wright, J. E., 4284
Wrightstone, J. W., 4668
Wyatt, F., 4581(a)
Wyss, J., 4607
- Zipf, G. K., 4556
Zubin, J., 4401(a)
Zulliger, H., 4657

¹ The letter (a) following entry numbers indicates citation of abstracts which are primary publications; these are usually of theses or of papers read at professional meetings.

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EDITORIAL NOTES

With this issue the present Editorial Staff completes its first year of responsibility for the PSYCHOLOGICAL ABSTRACTS. The year has been one of adjustment, made more difficult because of the Editor's personal changes in location. It is not anticipated that there will be further moves in the near future. During this year certain revisions have been made in policies and procedures, many as the result of expressed desires of psychologists, and all with the purpose of making the journal of the greatest usefulness. To all who have been generous in their assistance as abstractors and as friendly critics the Editor expresses his sincere appreciation.

* * *

The problems of classification of abstracts are not yet fully settled. During the Detroit meetings of the American Psychological Association, a committee of the Educational Psychology Division met with the Editor to discuss proposals for the subdivision of material in that area. The Division has made official proposals which will be utilized beginning with the January issue. Similar action by other Divisions would be helpful to the Editor. While the desirability of a constant classification schedule is fully recognized, it appears unwise to crystallize a scheme before the many problems are solved in a manner to provide most equitably for the different interests of psychologists.

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The 13th or index number of volume 21 has been in process since September, and it is hoped that it will appear promptly. However, we ask subscribers' indulgence if it is slightly delayed because the Editorial Staff is meeting a whole new set of problems, and they may be unable to maintain the schedule. There will be published in the index issue an account of the policies and procedures of PSYCHOLOGICAL ABSTRACTS which will serve to answer many of the questions asked by readers during the past year.

GENERAL

4179. Bernhardt, Karl S. (U. Toronto, Ontario, Canada.) Canadian psychology—past, present and future. *Canad. J. Psychol.*, 1947, 1, 49-60.—In this presidential address to the Canadian Psychological Association, Bernhardt first reviews the past and the present status of the group. He then suggests an outline for future development. The first principle is that research and application must proceed together—that psychology must have the goal of human happiness and efficient living. This program can be furthered by the development of inter-

laboratory and even international cooperation in research. At the same time, the results of research must be broadcast to a wider public. Three dangers are stressed: premature application, the development of an esoteric and empty vocabulary, and an over-emphasis on clinical practice as opposed to work with normal people.—F. W. Finger.

4180. Brinkmann, Donald. Problem des Unbewussten. (The problem of the unconscious.) Zürich: Rascher, 1943. Pp. 71.—The empirical problems of modern psychology are based on certain fundamental concepts of which the workers themselves may not be aware. One of these concepts, that of the unconscious, is discussed historically beginning with Descartes and Leibnitz.—K. F. Muensinger.

4181. Cottsdanker, Robert M. (Tufts Coll., Medford, Mass.) Relative contributions of combined input performances to output error. *Amer. Psychologist*, 1947, 2, 282.—Abstract.

4182. Edlin, G. Tatsache und Wert. (Fact and value.) *Schweiz. Z. Psychol. Anwend.*, 1943, 2, 225-238.—It is self-deception to believe that one can get rid of the evaluating function of our consciousness and grasp the bare facts of the outer and inner world without any values attached to them.—K. F. Muensinger.

4183. Engelson, M. Liberté et déterminisme. (Liberty and determinism.) *Gesundh. u. Wohlf.*, 1945, 25, 204-208.—The author defends the freedom of will against the doctrine of determinism which is associated with the mechanistic conception of the world, animate and inanimate. The position assumed by the author is that liberty is the interior law of being while determinism is the external law. Liberty is viewed as a reality and as existing in diverse degrees at all the stages of evolution with a minimum at the inanimate stage.—F. C. Sumner.

4184. Fries, Horace S. (U. Wisconsin, Madison.) Science, causation, and value. *Phil. Sci.*, 1947, 14, 179-180.—The aim of scientific inquiry is not the prediction of future events but rather the improvement of concepts for securing control of events.—F. Heider.

4185. Kopp, Helene. Die heutige psychologische Situation und ihre pädagogische Auswirkung. I. Die Frage nach dem Sinn des Lebens. (The present day psychological situation and its pedagogical effect. I. The problem of the meaning of life.) *Fachbl. schweiz. Heime*, 1947, 18, 15.—In times of comfort, peace, or happiness the question of the meaning of life disappears into the background of life as superfluous. In times of distress, suffering, anxiety, fear and hardship man reflects on the purpose and meaning of life, of existence. The author attributes the mean-

ingleness of life in the present day to the sciences, including psychology, which have oriented man towards this visible, material world, towards a worldly salvation, and towards a deification of man. Education has fallen in line with this orientation. When these materialistic and contingent holds fail, man is completely at a loss for a meaning of existence.—*F. C. Sumner.*

4186. Kopp, Helene. *Die heutige psychologische Situation und ihre pädagogische Auswirkung. II. Die Atmosphäre in welcher das Kind lebt.* (The present day psychological situation and its pedagogical effect. II. The atmosphere in which the child lives.) *Fachbl. schweis. Heime*, 1947, 18, 46.—The atmosphere in which the child grows up today is one absolutely oriented to a this-world. The child emerges from the school of today a materialist, bent on earthly happiness, instinctual gratification and without belief in God, a future life or a soul. Even the psychology which he learns at school leaves out of account the soul or else assigns to it a subordinate role.—*F. C. Sumner.*

4187. Kopp, Helene. *Die heutige psychologische Situation und ihre pädagogische Auswirkung. III. Der Geltungstrieb und seine pädagogische Auswirkung.* (The present day psychological situation and its pedagogical effect. III. The craving for recognition and its pedagogical effect.) *Fachbl. schweis. Heime*, 1947, 18, 75-76.—Modern man stands no longer in humility before the majesty of God whose will he strives to do. Modern man does what pleases himself, recognizes no higher power over and above himself, strives to make others recognize his own importance. Everywhere it is: "I think . . . I find . . . I am of the opinion." He has become the measure of all things. The child who grows up in this recognition-seeking environment too often fails to find an educator who can guide this craving for recognition into proper paths.—*F. C. Sumner.*

4188. Kyle, W. M. (U. Queensland, Brisbane, Australia.) *Lectures on psychology.* *Univ. Queensland, misc. Publ.*, 1944, No. 8, 1-76.—Designed primarily to augment and supplement texts used in the elementary psychology courses of the University of Queensland. The concepts of experience and consciousness as developed by Sir Wm. Mitchell in his text *Structure and Growth of the Mind* are augmented in the notes and discussions. Considerable enlargement on the historical growth of psychology is included. Attention is called to 4 of the lectures in particular entitled: "The Inadequacy of Sensationism," "The Wider Consciousness in Academic Psychology" and two lectures on the "Unconscious."—*M. A. Seidenfeld.*

4189. Landis, Carney. (Columbia U., New York.) *A modern dynamic psychology.* *J. comp. physiol. Psychol.*, 1947, 40, 135-141.—By "dynamic" psychology the psychologist means a "why" or explanatory system. Most of the outstanding systems of psychology have been termed dynamic by their sponsors. Landis presents what he terms "dynamic

constitutional psychology." The basic determiners of behavior are found initially in the constitution of the organism. The constitution is the result of interaction between heredity and environment. Evidence is cited to show that a wide variety of behavior abnormalities occur in persons with hereditary predisposition, and that this predisposition can interact with the maturational and exercise or learning factors in many combinations. If the constitutional factors are assumed to exist, the behavior of the mentally ill person is "understandable in terms of an organism reacting as best it can to the unusual perceptual elements of hallucination, fear and pain." The dynamic psychology is summarized as holding "that one must consider the constitution of the organism together with the particular problems, either physiological or psychological, which that organism must meet and react to. The solution, that is, the why of the psychology, is best approached through the understanding of the interaction between the constitutional predisposition and the provoking circumstances."—*L. I. O'Kelly.*

4190. Miller, David L. (U. Texas, Austin.) *The nature of scientific statements.* *Phil. Sci.*, 1947, 14, 219-223.—A scientific statement prescribes the conditions for its verification. The means of arriving at such a statement are irrelevant. Thus the future reference of statements is more important than the reference to the past. Positivists are wrong in identifying the meaning of a synthetic statement with the means of verifying it.—*F. Heider.*

4191. Montandon, R. *De la bête à l'homme. La mystère de la psychologie animale.* (From beast to man. The mystery of animal psychology.) Neuchâtel & Paris: Victor Attinger, 1943. Pp. 367.—A collection of animal anecdotes, and occult speculations about the animal soul.—*K. F. Muenzinger.*

4192. Morf, G. *Vom Sinn des Seelischen.* (The meaning of the mental.) *Schweis. Z. Psychol. Anwend.*, 1943, 2, 302-307.—Mentality is the form which the principle of responsibility has assumed in human life.—*K. F. Muenzinger.*

4193. Rohrer, H. *Gegenwart und Zukunft der Psychologie.* (The present and future of psychology.) *Wien. Z. Phil. Psychol. Pädag.*, 1947, 1, 13-22.—Psychology will have a great future. So far psychology has not done much to influence systematically public opinion and the behavior of the individual. Gestalt psychology and Kretschmer's studies are important beginnings. The psychologist must have a good knowledge of anatomy, physiology, psychiatry and anthropology, and above all he must know history of philosophy and epistemology.—*C. Bondy.*

4194. Stevens, S. S., & Stone, Geraldine. (Harvard U., Cambridge, Mass.) *Psychological writing, easy and hard.* *Amer. Psychologist*, 1947, 2, 230-235.—Rudolph Flesch in his book, *The art of plain talk*, develops a convenient formula for gauging the difficulty of prose. Various psychological works tested by Flesch's formula are listed in a table in

order of increasing difficulty from Boring and Van de Water, *Psychology for the fighting man*, to Adler, *What man has made of man*. 19 references.—L. J. Timm.

4195. Woodworth, Robert S., & Marquis, Donald G. *Psychology*. (5th ed.) New York: Henry Holt, 1947. Pp. x + 677. \$3.25.—While preserving the general character of the book in this edition, the authors have brought up to date the material in the various chapters and have re-allocated some material to different chapters. The chapters become more difficult as the book progresses. An analytical summary at the end of each chapter distinguishes this edition from previous ones. There are 434 references at the end of the book arranged on a chapter-by-chapter basis.—J. J. Kane.

THEORY AND SYSTEMS

4196. Allers, Rudolf. (Catholic U., Washington, D. C.) *Some remarks on the conditions of mutual cultural understanding*. In Bryson, L., *Approaches to group understanding*. (See 21: 4510.) Pp. 527-541.—The Thomistic point-of-view is the foundation of this paper. It starts with a distinction between objective and subjective facts and suggests that true understanding of people comes not from their externally observed behavior, nor from the stimulus situation, but from their feelings about things. It is their interpretations and attitudes which guide their conduct. This point leads to an attack on scientism which is said to ignore the peculiar spiritual and unique qualities of man. It is philosophy's task to appreciate man's origins rather than to impose an *a priori* framework upon him. It is only humanism which can lead us to understand man; naturalism is only descriptive and its program eliminates knowledge derived by any means other than science. Yet there is verifiable knowledge obtained by other means.—R. A. Littman.

4197. Andrews, Donald H. (Johns Hopkins U., Baltimore, Md.) *Cultural bridges from thermodynamics*. In Bryson, L., *Approaches to group understanding*. (See 21: 4510.) Pp. 389-401.—Modern science has completely transformed the way of life of man by increasing his alternatives and power. At the same time science has shifted its emphasis from an elementary concern with matter to an intensive analysis of energy. This has resulted in the decision that process is one of the most primary concerns of man. Yet it is necessary to retain some kind of substantiality to provide a base for permanence. This, it is suggested, derives from the transcendence of form the only thing to which we can attach the term "reality." This argument is accompanied by an overt rejection of materialistic hypotheses. Man as emergent organism represents a high type of individuality which is able to control, through the power of ideas, the various forms which energy takes. However since we must admit ideal forms as *real* we must also admit that man himself is part of a superorganic collectivity, and it is man's

task to further the orderly existence of this emergent phenomenon.—R. A. Littman.

4198. D'Arcy, Martin Cyril. (Campion Hall, Oxford, England.) *The mind and heart of love, lion and unicorn; a study in Eros and agape*. New York: Holt, 1947. Pp. 333. \$3.50.—The Jesuit philosopher distinguishes between two kinds of love. One is egocentric and possessive; on lower levels it leads to brutality, aggressiveness, and sadism, on higher levels it is represented by the classic Greek ideal, by rationality, and the tendency towards self-perfection. The other is self-denying and submissive, it prefers fusion with the beloved to self-realization. It is ecstatic, loves night and death, romanticism and irrationalism. The opposites eros-agape, animus-anima, essence-existence, and nature-person are expressions of this polarity. The great movements in history, art, philosophy, and religion are influenced by the preference for one or the other of these loves. Both tendencies are necessary and they have to be synthesized in the love to God. As philosophical background a kind of existentialism as developed by Hunter Guthrie, a follower of Heidegger, is accepted. Relevant views of Aristotle, Thomas Aquinas, Scheler, Freud, Jung, de Rougemont, Nygren, and others are discussed.—F. Heider.

4199. Ekstein, Rudolph (Menninger Foundation, Topeka, Kans.), & Bellak, Leopold. *Ideological warfare in the psychological sciences. (Towards a theory of determinants in psychology)*. *Amer. Psychologist*, 1947, 2, 265-266.—Abstract.

4200. Graber, Gustav Hans. *Probleme der Übertragung bei Freud und bei Jung*. (Problems of transference in Freud and Jung.) *Schweiz. Z. Psychol. Anwend.*, 1947, 6, 131-136.—Freud's concept of transference is compared with Jung's as presented in his recent book "Die Psychologie der Übertragung." Jung, in contrast to Freud, includes in his basic principles not only personal but also phenomenological and archetypal aspects. A study of identification is required for an understanding of transference.—K. F. Muensinger.

4201. Klee, James B. (Carnegie Inst. Technology, Pittsburgh, Pa.) *Learning—acquisition or selection—possibility versus probability*. *Phil. Sci.*, 1947, 14, 231-241.—When we say an organism "acquires" a habit or a skill we often use the word in an additive sense which leads to wrong formulations. Many words are multi-dimensional, and confusion results if they are used uncritically. Semantic difficulties are at the basis of the mind-body problem and the heredity-environment controversy. It is important to state psychological findings in terms of probabilities, not in terms of possibilities. "... once we recognize that we are dealing with probabilities and not possibilities we are in a position to go ahead and put some system and order into the chaos that is current psychology." Out of the large number of possible forms of behavior a few are selected and made probable. Many selective factors act together in the determination of behavior.—F. Heider.

4202. Moullyn, Adrian C. (Baldpate Inc., Georgetown, Mass.) *Mechanisms and mental phenomena*. *Phil. Sci.*, 1947, 14, 242-253.—Current psychological and psychiatric explanations are unsatisfactory in that they contain a mixture of trends stemming from two sources: a reflex theory following the causal principle, and vague psychological notions. Mental activities are basically different from reflex phenomena, they cannot be understood causally. They entail a synthesis of the past and the future in the present instant. Thus the person "creates" unity in the antinomy between his knowledge of past experience and the unpredictable future by condensation of his memory images and by projecting his act into the future, while the subject experiences emotional tension. . . .—F. Heider.

4203. Pepper, Stephen C. (U. California, Berkeley.) *A digest of purposive values*. Berkeley: University of California Press, 1947. Pp. 100. \$2.50.—Purposive behavior is roughly defined as modifiable adaptive behavior. It occurs in 2 main forms: appetition and aversion. The structures of typical appetitions and aversions are analyzed, and a list of diagrammatic representations of such sample structures are offered as a descriptive definition of purpose, and as demarcating the factual field of purposive behavior. Purposive values are whatever is intrinsically positive or negative in appetitions or aversions. The 3 kinds of value which appear in purposive structure are affective (pleasure vs. pain), conative (wanting vs. nonwanting), and achievement (success vs. frustration). The primary evaluative judgment for purposive value is that based on the affective standards of greatest pleasure and least pain. This, however, is not the traditional psychological hedonism, because it insists that drives primarily motivate behavior, not pleasure and pain; nor is it the traditional ethical hedonism, because here are presented empirically sanctioned standards of value. Such individual evaluative standards as these cannot be extended by simple enlargement to whole societies. There the survival factor becomes a basic source of value.—C. F. Scofield.

4204. Reis, Lincoln. (Bard Coll., Annandale, N. Y.) *Discrimination of knowledge as a cultural bridge*. In Bryson, L., *Approaches to group understanding*. (See 21: 4510.) Pp. 660-667.—It is questionable that there is or can ever be a "unity of science in the form of scientific method." Universal scientific method is illusory and rests upon a negative base, the rejection of bad habits of thought. Nowhere can be found a single method or procedure of unlimited applicability. The unity of science which may exist " . . . is not that of subject matter nor even of method." For a general scientific method presumes a single subject matter or one to which all other subject matters are reducible; an unlikely condition. The universalist position is also dangerous because it assumes that all problems are soluble and related by means of science when actually respect and tolerance of others is as fundamental an event and datum as are the products of science. It

is the basis of the unity of science. Thus the existence of differences is a guarantee that knowledge is being acquired; contemplation of the whole is sterile.—R. A. Littman.

4205. Sutermeister, H. *Neue Gesichtspunkte in der Psychologie*. (New points of view in psychology.) *Schweiz. Z. Psychol. Anwend.*, 1943, 2, 307-312.—A discussion of certain trends in psychology and their relation to European civilization.—K. F. Muenzinger.

4206. Wagner-Simon, Theresa. *Einführung in die Schicksalsanalytische Theorie von Dr. L. Szondi*. (Introduction to the theory of fate analysis by Dr. L. Szondi.) *Schweiz. Z. Psychol. Anwend.*, 1943, 2, 3-18.—The Hungarian neurologist Szondi uses the concept of fate in the bio-psychological sense of a hidden plan which determines the way in which man lives and dies. Certain genotypical factors which are not manifested in the phenotype of man operate as hidden dynamic forces which influence his acts of choice in love, friendship, work, and health.—K. F. Muenzinger.

STATISTICS

4207. Aroian, Leo A. *The probability function of the product of two normally distributed variables*. *Ann. math. Statist.*, 1947, 18, 265-270.—The distribution of the product of two normally distributed variables has heretofore been generated by an infinite converging series. For instances where this convergence is slow good approximations are derived. It is also shown that the distribution approaches normality.—L. Festinger.

4208. Betts, Gilbert L. (Educ. Test Bur.) *Test calibration for categorical classification*. *Amer. Psychologist*, 1947, 2, 287-288.—Abstract.

4209. Coombs, Clyde H. (U. Michigan, Ann Arbor.) *The analysis of qualitative variables*. *Amer. Psychologist*, 1947, 2, 305.—Abstract.

4210. Dailey, John T. *Techniques for estimating the optional weight of the "wrongs" in scoring printed tests*. *Amer. Psychologist*, 1947, 2, 310-311.—Abstract.

4211. Dudek, Frank J. (Clarkson, Nebr.) *Dependence of factorial composition of aptitude tests upon population differences among pilot trainees*. *Amer. Psychologist*, 1947, 2, 282.—Abstract.

4212. Guilford, J. P. (U. Southern California, Los Angeles.) *The prediction of categories from measurements*. *Amer. Psychologist*, 1947, 2, 305.—Abstract.

4213. Lazarsfeld, Paul F. (Bureau of Applied Social Research, New York.) *Factor analyses of qualitative attributes*. *Amer. Psychologist*, 1947, 2, 306.—Abstract.

4214. Malmquist, S. *A statistical problem connected with the counting of radioactive particles*. *Ann. math. Statist.*, 1947, 18, 255-264.—When a given distribution in time is transformed into another distribution by means of some standard rule of

omission, the function of the transformed distribution can be derived mathematically.—*L. Festinger.*

4215. Morse, A. P., & Grubbs, F. E. The estimation of dispersion from differences. *Ann. math. Statist.*, 1947, 18, 194-214.—The variance of a population may be estimated by considering the successive differences between scores arranged in the order in which they were obtained. While such an estimate of variance is less efficient than the customary one, it has the value of being able to eliminate trend effects. It is of most value where the nature of the trend effects is unknown.—*L. Festinger.*

4216. Smith, J. H. Estimation of linear functions of cell proportions. *Ann. math. Statist.*, 1947, 18, 231-254.—Methods of least squares, minimum Chi Square, and maximum likelihood are discussed and compared for problems of estimating parameters from cell proportions. Similarities and asymptotic identities among the methods are pointed out in an effort to integrate them.—*L. Festinger.*

4217. Wald, Abraham. (*Columbia U., New York.*) *Sequential analysis.* New York: John Wiley, 1947. Pp. xii + 212. \$4.00.—This is the first book to appear on the new statistical procedure called sequential analysis. The procedure was developed during the war by the author. A brief introduction of theory of testing statistical hypotheses and the idea of a sequential test is followed by a complete account of the development of sequential analysis to date.—*L. Festinger.*

4218. Wolfowitz, J. The efficiency of sequential estimates and Wald's equation for sequential processes. *Ann. math. Statist.*, 1947, 18, 215-230.—Some of the fundamental equations of sequential analysis are derived under different and somewhat more general conditions than previously. Several new and related results relevant to sequential analysis are proven.—*L. Festinger.*

ORGANIZATIONS

4219. [Anon.] Society of Experimental Psychologists. *Amer. Psychologist*, 1947, 2, 223.—Group photograph taken at Princeton, N. J., Princeton Bicentennial, April 9 and 10, 1947.

4220. Stevens, S. S., & Boring, E. G. (*Harvard U., Cambridge, Mass.*) The new Harvard Psychological Laboratories. *Amer. Psychologist*, 1947, 2, 239-243.—The development of the Harvard psychological laboratories is traced from the time William James prepared 2 rooms for psychological research in 1876 until the present. The laboratories now have 30,000 square feet of floor space. Construction of the present laboratories in the basement and on part of the first floor of Memorial Hall became necessary in 1946. A floor plan and a detailed description of the laboratories are given.—*L. J. Timm.*

HISTORY AND BIOGRAPHY

4221. Fayer, Martha. Die Psychologie in Ungarn. (Psychology in Hungary.) *Schweiz. Z. Psychol. Anwend.*, 1943, 2, 316-319.—A historical sketch

of the rise of psychological laboratories, institutes, societies and journals in Hungary and brief descriptions of the work of Ranschburg, Várkonyi, v. Schiller, Lehner, Steif, Molnár, K. Katona, Tarcsay, Nagy, Fayer, Szászi, and Zörgö.—*K. F. Muenzinger.*

4222. Harris, Chester W., & Cronbach, Lee J. (*U. Chicago, Ill.*) The status of psychological testing in Japan. *Amer. Psychologist*, 1947, 2, 281.—Abstract.

4223. Lévy-Valensi, J. L'école psychiatrique de Bicêtre et de la Salpêtrière au XIX^e siècle. (The psychiatric school of Bicêtre and of Salpêtrière in the 19th century.) *Sem. Hôp. Paris*, 1946, 22, 1719-1731.—This is an historical sketch of medical psychology in France during the 19th century with special prominence given to the work of Pinel, Esquirol, Falret, Baillarger, and Voisin at the Salpêtrière, and of Ferrus and Leuret at Bicêtre.—*F. C. Sumner.*

4224. Meyerson, I. Pierre Janet. *J. Psychol. norm. path.*, 1946, 39, 385-386.—Obituary.

PROFESSIONAL PROBLEMS OF PSYCHOLOGY

4225. DiMichael, S. G., & Dabelstein, D. H. Work satisfaction and work efficiency of vocational rehabilitation counselors as related to measured interests. *Amer. Psychologist*, 1947, 2, 342-343.—Abstract.

4226. Hahn, Milton E. (*Psychological Services Center, Syracuse, N. Y.*) An evaluation of counselor consistency. *Amer. Psychologist*, 1947, 2, 292.—Abstract.

4227. Liddy, R. B., & Neal, Leola E. (*U. Western Ontario, Canada.*) The first course in psychology in Canadian universities. *Canad. J. Psychol.*, 1947, 1, 61-66.—A summary is presented of questionnaires completed by 25 colleges and universities, regarding the introductory course in psychology. It appears that in general a relatively small amount of time is devoted to class discussion, demonstration, and experiment, and that reasonably satisfactory results can be achieved with large classes (960 is the largest reported). The objectives of the course are classified under 4 headings: to understand what psychology is, to develop a sound point of view toward the study of human affairs, to lay the basis for advanced study, and to show the pertinence of valid psychological knowledge to everyday practical affairs. When this line of questioning was extended to 435 students at the University of Western Ontario, 48% checked as the most important aim the improvement of social and personal adjustments, with 27% more voting for the development of habits of critical thinking about everyday psychological problems.—*F. W. Finger.*

4228. Menninger Foundation (*Topeka, Kans.*) The Menninger Foundation School of Clinical Psychology: an experiment. *Bull. Menninger Clin.*, 1947, 11, 109-140.—A complete issue of the *Bulletin* describes the training program in clinical psychology

developed cooperatively by the University of Kansas, Winter Veterans Administration Hospital, and the Menninger Foundation. The selection of students was regarded as a unique research opportunity and has been based upon an evaluation of previous achievement, psychological testing, and interviews with 2 or more psychologists and 1 psychiatrist. The subject matter considered essential for training clinical psychologists is outlined. Classroom work is supplemented by small study-group seminars, reading courses, forums, testing practice, and a rotation program under which interns are sent in pairs to Winter Hospital services and outside agencies.—*W. A. Varvel.*

4229. [Minnesota Society for Applied Psychology.] A proposal for a code of ethics for professional psychologists. *Amer. Psychologist*, 1947, 2, 246.—The code of ethics adopted by the Minnesota Society for Applied Psychology emphasizes four main points: (1) the psychologist will attempt to handle only those problems with which he can deal in a competent manner; (2) the confidential nature of psychological data relating to individuals must be respected; (3) information regarding individuals will be exchanged only insofar as the client will be benefited; (4) the psychologist must avoid discrediting his profession before the public.—*L. J. Timm.*

4230. Wolfe, Helen. (*Amer. Psychol. Ass., Washington, D. C.*) Psychologists' finances. *Amer. Psychologist*, 1947, 2, 236-238.—During the period 1940 to 1945 psychologists' salaries increased about 25%. This increase agrees with the raise in salaries of college teachers in general. However, because of higher taxes and prices, the real earnings of this group was lower in 1945 than in 1940. Over this same period the income of the average wage earner increased 100%. The author discusses the increased costs in some detail and the discussion is summarized in two tables and a graph.—*L. J. Timm.*

[See also abstracts 4294, 4315, 4369, 4376, 4382, 4383, 4385, 4434, 4508, 4509, 4516, 4518.]

PHYSIOLOGICAL PSYCHOLOGY

4231. Brobeck, John R., Wheatland, Mary, & Strominger, Jack Leonard. Variations in regulation of energy exchange associated with estrus, diestrus and pseudopregnancy. *Endocrinology*, 1947, 40, 65-72.—From the results of measuring the activity, food intake, weight, and body temperature in rats during estrus, diestrus, and pseudopregnancy, it is concluded that, while rhythmic variations in these variables are related to the estral cycle, each seems to arise independently of the others. The origin of these rhythms is not shown but "they almost surely arise in some manner from variations in the secretory activity of either the gonads or the hypophysis." The data appear to be compatible with the hypothesis that the energy exchange of the body is regulated by the hypothalamus.—*M. H. Groves.*

4232. Christensen, William R. (*U. S. Army, Quartermaster Corps, Climatic Research Laboratory,*

Lawrence, Mass.) Long term acclimatization to heat. *Amer. J. Physiol.*, 1947, 148, 86-90.—Following 1 month "acclimatization," 7 humans were exposed for 3 hours 5 days a week for a period of 6 months to a temperature of 90°F at a relative humidity of 85%. One hour was spent in physical exercise. Rectal temperature, pulse rate, and weight were taken. There was no trend in pulse rates or rectal temperature. 5 subjects showed a decline in sweat rate throughout the experiment.—*R. B. Bromiley.*

4233. Griffiths, William J., Jr. (*Phipps Psychiatric Clinic, Johns Hopkins Hosp., Baltimore, Md.*) Audiogenic fits produced by magnesium deficiency in tame domestic Norway rats and in wild Norway and Alexandrine rats. *Amer. J. Physiol.*, 1947, 149, 135-141.—As wild Norway and Alexandrine rats do not show audiogenic seizures (Maier, N. R. F. and Glaser, N. M., *Comp. Psychol. Mongr.*, 1940, 16, 1-14: 4601) 8 wild Alexandrine, 10 wild Norway and 16 tame, non-susceptible Norway rats with appropriate controls were studied before and while on an Mg deficient diet. While on the stock diet each rat was exposed for 2 minutes daily to an air jet and every other day while on the experimental and control diets. No control rat had a seizure, all experimental rats did. The average day of first seizure for the domestic Norway rats was the 8th (range 3-16), none survived more than 4 seizures. Average day of first seizure for the wild rats was the 15th (range for Alexandrines 9-24 days, for wild Norways 6-19 days). These rats had from 6 to 19 seizures but all survived the 50 to 55 day test period.—*R. B. Bromiley.*

4234. Grossman, M. I., Cummins, G. M., & Ivy, A. C. (*Northwestern U. Med. Sch., Chicago, Ill.*) The effect on food intake after vagotomy and sympathectomy. *Amer. J. Physiol.*, 1947, 149, 100-102.—Three dogs with the intrinsic innervation of the stomach surgically removed and 2 controls were given insulin. The food intake increased 155% for the experimental and 148% for the control animals. After the first week food intake gradually decreased. As insulin induced increased gastric peristaltic activity does not take place following vagotomy the existence of a hunger center in the brain is considered possible.—*R. B. Bromiley.*

4235. Mahl, George F. (*Yale U., New Haven, Conn.*) Gastric secretion of hydrochloric acid in dogs maintained in a chronic fear state by repeated pain-fear stimulation. *Amer. Psychologist*, 1947, 2, 344.—Abstract.

4236. Szent-Györgi, A. (*U. Budapest, Hungary.*) Chemistry of muscular contraction. New York: Academic Press, 1947. Pp. vi + 150. \$4.50.—Muscular activity is the immediate basis of all overt behavior. For this reason psychologists may be curious about the physico-chemical processes taking place in a contracting muscle, even though such information is of little direct relevance for the study of behavior of an intact organism. The essential components of a contractile muscle fiber are two protein substances, myosin and actin. By itself,

neither of these is contractile. However, together they form a compound, actomyosin, which has the remarkable property of contractility. Furthermore, the contraction can be induced *in vitro* by the action of an enzyme, adenosine triphosphate, and ion constituents of the muscle fiber. The book is a detailed story of the recent advances in this highly specialized sector of biochemistry.—*J. Brožek.*

4237. **Thurstone, L. L.** (*U. Chicago, Ill.*) **Factorial analysis of body measurements.** *Amer. J. phys. Anthropol.*, 1947, 5, 15-28.—The author demonstrates the application of multiple factor analysis in identifying the primary factors in body growth among the following 18 measurements: age, stature, suprasternal height, symphysis height, skull breadth, skull length, biacromial diameter, transverse chest diameter, sagittal chest diameter, bicristal diameter, trunk length, sternal length, arm length to radial styloid, arm length to tip of medius, chest circumference at inspiration, chest circumference at expiration, hip circumference, weight. Most of the primary factors show rather small positive correlation with the most conspicuous exceptions being .60 between chest width and hip circumference and .35 between limb length and trunk size. The author believes that before undertaking to investigate the relation between body measurements and temperament it is best to identify the primary factors in body growth.—*F. C. Sumner.*

4238. **Travis, Roland C., & Kennedy, John L.** (*Tufts Coll., Medford, Mass.*) **Prediction and automatic control of alertness. I. Experiments on control of lookout alertness.** *Amer. Psychologist*, 1947, 2, 331.—Abstract.

NERVOUS SYSTEM

4239. **Arnold, Magda B.** (*U. Toronto, Ont., Canada.*) **Brain function in emotion.** *Amer. Psychologist*, 1947, 2, 344-345.—Abstract.

4240. **Barnes, T. Cunliffe.** (*Hahnemann Medical College, Philadelphia, Pa.*) **Physiological and psychological factors in electroencephalography.** *Amer. Psychologist*, 1947, 2, 337.—Abstract.

4241. **Conel, J. LeRoy.** (*Boston U., Boston, Mass.*) **The postnatal development of the human cerebral cortex. Vol. III. The cortex of the three-month infant.** Cambridge: Harvard University Press, 1947. Pp. x + 158. 104 plates. \$12.50.—The brains of 6 infants were used for an investigation of the condition of the cerebral cortex in normal infants at the age of 3 months. The brains were prepared and studied by the same procedures and methods described for the brains of newborn and one-month infants in Vols. I and II of this series (see 13: 2814, 16: 3420). Detailed histological descriptions of 42 cortical areas are presented. The general pattern of the architectonics of the cerebral cortex in the brain of the 3-months infant is the same as it is in the brain at the age of 1 month. 9 criteria of development revealed in changes in the microscopical structure of the cortex are discussed. 6 tables present signifi-

cant histological quantitative features. 104 plates present 4 actual size photographs and 216 photomicrographs. 31 references.—*C. F. Scofield.*

4242. **Gesell, Robert, Hausen, Elwood T., & Siskel, Jeane.** (*U. Michigan, Ann Arbor.*) **On the electrotonic nature of stimulation, inhibition, summation and after-discharge of nerve centers.** *Amer. J. Physiol.*, 1947, 148, 515-529.—Respiratory reflexes arising from electrical stimulation of the vagus, superior laryngeal, and carotid nerves were studied in anesthetized dogs. Stimulation of the carotid nerve revealed that the inhibitory fibers from the carotid sinus have a lower threshold than the excitatory fibers from the chemoreceptors of the carotid body. Intense stimulation increased not only inspiration but expiration showing that these nerves exert effects upon both the inspiratory and expiratory half centers. Such dual excitation is thought to be a common feature of other respiratory afferents. Temporal and spatial summation in the inspiratory and expiratory half centers was obtained. Spatial, unlike temporal summation, accrued simultaneously in both half centers. Inhibitory effects upon the half centers show spatial and temporal summation. These effects are attributed to the accumulation of acetylcholine in the half centers and are interpreted in terms of Gesell's electronic theory of nervous integration.—*R. B. Bromiley.*

4243. **Kellogg, W. N.** (*Indiana U., Bloomington.*) **"Forced" rotation produced by cortical lesions in the dog.** *Amer. Psychologist*, 1947, 2, 337.—Abstract.

4244. **Rasmussen, A. T.** (*U. Minnesota, Minneapolis.*) **Some trends in neuroanatomy.** Dubuque, Iowa: Wm. C. Brown, 1947. Pp. vii + 93. \$2.50.—The development of neuroanatomy is traced from the Greeks, through the Renaissance, to the complex modern period. Emphasis is placed on the morphology of the brain, microscopic structure of the nervous tissues, differentiation of the fundamental divisions of the nervous system, cranial nerves, the arrangement of cerebral convolutions, stratification of the cortex, and encephalometry. A separate chapter is devoted to the development of the instruments of anatomical research, including those for the study of electrical phenomena associated with nervous activity. The author is convinced that structure and function are inextricably mingled in neurological research and includes a section on neurophysiology.—*J. Brožek.*

4245. **Rubinstein, H. S., & Kurland, Albert A.** (*Sinai Hosp., Baltimore, Md.*) **Electroencephalogram of cats subjected to repeated minimal convulsive doses of electricity.** *Proc. Soc. exp. Biol. N. Y.*, 1947, 65, 348-351.—12 adult cats, experimentally undergoing a course of electrically induced convulsions, were also studied by electroencephalographic techniques. EEG recordings from the occipital area show a fairly characteristic change best described as a gradual decrement in frequency and increment in voltage. Eventually this slow high voltage pattern replaces the normal only to be rapidly replaced by the latter with termination of the shock series. The

depressive effects of repeated convulsions upon cortical irritability are considered briefly in relation to theory.—L. A. Pennington.

[See also abstracts 4262, 4272, 4295, 4308, 4412.]

RECEPTIVE AND PERCEPTUAL PROCESSES

4246. Bruner, Jerome S., Postman, Leo, & McGinnies, Elliot. (Harvard U., Cambridge, Mass.) Personal values as determinants of perceptual selection. *Amer. Psychologist*, 1947, 2, 285-286.—Abstract.

4247. Perilhou, Pierre. (Clamart, Seine, France.) The vibratory sense. *J. gen. Psychol.*, 1947, 36, 23-28.—The techniques which have been used for investigating the vibratory sense are critically evaluated. Using a generator and "tactor" adapted for the problem, experiments were conducted to discover the "active part" of the stimulation, the frequency threshold, and the difference thresholds for frequency and intensity.—C. F. Scofield.

4248. Schorger, A. W. (168 N. Prospect., Madison 5, Wis.) The sense of smell in the short-tailed shrew. *J. Mammal.*, 1947, 28, 180.—Several observers of captive shrews have reported that these animals do not find food by the sense of smell except at very short distances within one inch. The author reports in this brief note that he found a short-tailed shrew in one of his traps for weasels. The shrew had burrowed up through snow 7 inches, directly beneath the bait which was raw beef nailed to side of stump 3 inches above the snow. The author believes this species of shrew (*Blarina brevicauda*) can discover food by scent at distances considerably greater than has been assumed.—F. C. Sumner.

4249. Terry, M. C. (V. A., Palo Alto, Calif.), & Segall, Gabriel. The association of diabetes and taste-blindness. *J. Hered.*, 1947, 38, 135-137.—Tests were administered to 262 Jews, 250 non-Jews, and 168 Negroes, who were grouped according to whether they were diabetic or non-diabetic. Reactions to phenylthiocarbamide (PTC) were studied and significant differences were found that confirmed an earlier observation of association between diabetes mellitus and taste-blindness. It is possible, of course, that some physiological factors may prevent some diabetics from tasting PTC. This needs further study.—G. C. Schwesinger.

VISION

4250. Barlow, Horace B., Kohn, Henry I., & Walsh, E. Geoffrey. (Massachusetts Institute of Technology, Cambridge, Mass.) The effect of dark adaptation and of light upon the electric threshold of the human eye. *Amer. J. Physiol.*, 1947, 148, 376-381.—Condensor discharges at rates of 20 to 30 per minute were applied to forehead and forearm of human subjects. The visual thresholds were measured. Increasing the intensity of the illumination increased the threshold, sudden darkening of the eye caused the threshold to electrical stimulation

to fall rapidly then to rise slowly. However, if the eye was adapted to 0.004 to 0.1 foot candles the first effect of darkening was a small abrupt rise then a slow rise to the dark adaption level.—R. B. Bromiley.

4251. Barlow, Horace B., Kohn, Henry I., & Walsh, E. Geoffrey. (Massachusetts Institute of Technology, Cambridge, Mass.) Visual sensations aroused by magnetic fields. *Amer. J. Physiol.*, 1947, 148, 372-375.—Comparison is made between visual sensations aroused by magnetic and electrical stimulation. Subjects fixated a white spot on a gray background. Their temples touched or were close to the core of an alternating electromagnet (frequencies from 10 to 90 cps, intensities from 200 to 800 gauss). The electrical stimulus, applied to temple and forearm, was a sinusoidal electric current of less than 1 milliamper. The visual sensations aroused by both types of stimulation are "1, maximal in the periphery of the visual field; 2, colorless; 3, abolished by pressure on the eyeball; 4, subject to fatigue; 5, induced by frequencies up to at least 90 c.p.s.; 6, prolonged by eye movements. Shutting the eye raises the threshold for electrical stimulation but not for magnetism." The locus of stimulation is believed to be the retina.—R. B. Bromiley.

4252. Bartlett, Neil R. (Johns Hopkins U., Baltimore, Md.) The relationship between critical flicker frequency and flash duration. *Amer. Psychologist*, 1947, 2, 295.—Abstract.

4253. Beck, Lloyd Henry. (Yale U., New Haven, Conn.) Some experimental and theoretical relationships between area and brightness at suprathreshold levels. *Amer. Psychologist*, 1947, 2, 298-299.—Abstract.

4254. Berry, Richard N. (Brown U., Providence, R. I.) A comparison of threshold acuities for vernier, real depth and stereoscopic tasks under similar conditions. *Amer. Psychologist*, 1947, 2, 294.—Abstract.

4255. Biot, M. A. Sur le chromatisme de l'oeil. (On the chromatism of the eye.) *Ann. Soc. sci. Brux.*, 1946, 60, 138-149.—An instrument for measuring longitudinal chromatic aberrations of the eye is described as consisting of two lenses (one convex and the other concave) of same curvature, cut of same glass, and facing each other with the curved surfaces a slight distance apart. The instrument constitutes a magnifying glass whose focal distance can be varied by modifying the separation of the two lenses. Measurements of longitudinal chromatic aberrations of eye made with this instrument have approximated those obtained by Dr. Polack.—F. C. Sumner.

4256. Brown University. A method for determining reaction time of binocular fusion under conditions of stress. (1942; Publ. Bd. No. L 55789) Washington, D. C.: U. S. Dep. Commerce, 1947. Pp. 14. \$1.00, microfilm; \$1.00, photostat.—A method is described for investigating the effects of emotional stress on reaction time for binocular fusion. The test gives promise of being valuable for selecting men who are emotionally unstable. The

apparatus described consists of a visual system, an electrical circuit for registering reaction time, and a circuit for applying shock to the subject. The most promising measures of performance obtained in this situation are the Q and dA scores. The Q score, a variability score, is the interquartile range of the reaction time throughout the series. The dA score is the difference between the median for the apprehension trials and the median for the control trials. Split-half and test-retest reliability data are presented.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce.*)

4257. Chapanis, Alphonse. **The effect of refractive error on ability to see at night.** (AAF ATSC Engng Div. Memo. Rep. No. TSEAL3C-695-48, 1945; Publ. Bd. No. L 60608.) Washington, D. C.: U. S. Dep. Commerce, 1947. Pp. 11. \$1.00, microfilm; \$1.00, photostat.—The purpose of this report is to present data showing the effect of refractive error on ability to see at very dim illuminations. The question was whether Army Air Forces ground personnel can see better in the dark with their eye glasses on or off. The present study indicates that when the refractive system of the eye is near-sighted or myopic, the loss of light from reflection and absorption in the spectacle lens at low levels of illumination is more than compensated by its corrective properties for the sight of the observer. Details regarding the test apparatus (the Johnson Foundation luminous plaque adaptometer), experimental procedures, and statistical analysis of the data are given in appendix 1.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce.*)

4258. Chapanis Alphonse. **A German dark adaptometer.** (AAF ATSC Engng Div. Memo. Rep. No. TSEAL3-695-48K, 1945; Publ. Bd. No. L 60609.) Washington, D. C.: U. S. Dep. Commerce, 1947. Pp. 8. \$1.00, microfilm; \$1.00, photostat.—A German dark adaptometer is described in this report. The apparatus is unique in that it makes use of the reflex response of the eyes to moving patterns of light and thus permits the objective measurement of dark adaptation. Appendix 1 contains a translation of material describing the method of measuring dark adaptation objectively by means of optokinetic nystagmus. Appendix 2 contains a description of the apparatus with suggestions for its improvement.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce.*)

4259. Chapanis, Alphonse. **Results with the Luckiesh-Moss-Army Air Forces anoxia demonstration chart, type AAF-2, at a simulated altitude of 16,000 feet.** (AAF Materiel Command Engng Div. Memo. Rep. No. ENG-49-695-37, 1943; Publ. Bd. No. L 60968.) Washington, D. C.: U. S. Dep. Commerce, 1947. Pp. 9. \$1.00, microfilm; \$1.00, photostat.—One hundred and ten men were tested with the Type AAF-2 charts at a simulated altitude of 16,000 feet during indoctrination flights in the decompression chamber. The results of these experiments are summarized statistically, discussed and compared with tests of Type AAF-1 chart in Appendix I.

These visual charts were devised for demonstrating the effects of anoxia on brightness discrimination. It was concluded that the Type AAF-2 chart was not as satisfactory as the Type AAF-1 chart.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce.*)

4260. Chapanis, Alphonse, & Pinson, Ernest A. **A portable radium plaque night vision tester.** (AAF ATSC Engng Div. Memo. Rep. No. TSEAL3C-695-37K, 1945; Publ. Bd. No. L 60613.) Washington, D. C.: U. S. Dep. Commerce, 1947. Pp. 11. \$1.00, microfilm; \$1.00, photostat.—This report describes the portable radium plaque night vision tester developed by the Air Technical Service Command for use by flight surgeons. Tests show it to yield better predictions of ability to see at night than do other portable night vision testers. Bibliography of night vision test studies containing data on the radium plaque night vision tester and Army Air Forces-Eastman night vision tester is given in Appendix 1. A description of the radium plaque night vision tester and photographs, including instructions for use, are given in Appendix 2. Integration of the scoring procedure for the tester with the scores for tests authorized by AAF regulation 25-2 is discussed in Appendix 3.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce.*)

4261. Fry, Glenn A. [Chm.], Treleaven, C. L., Walsh, Rita, Higgins, E. L., & Radde, C. A. **Definition and measurement of torsion.** *Amer. J. Optom.*, 1947, 24, 329-334.—This is special report 2 of the Committee on Nomenclature and Standards, American Academy of Optometry. Torsion is here defined in terms of a system of axes based on the straight forward position of the line of sight rather than on the primary position. If it is assumed that these 2 coincide, as they nearly do in normal subjects, calculation of changes in torsion with changes in direction of fixation is simplified. A formula for calculating the angle of torsion (rotation of the eye around the line of sight) is given. A correction can be introduced to compensate for deviation of the primary position from the straight ahead position when this is known. This method permits of comparisons of calculated torsions with measured cyclophorias.—*M. R. Stoll.*

4262. Halstead, Ward C. (*U. Chicago, Ill.*) **Critical fusion frequency and prefrontal lobes in man.** *Amer. Psychologist*, 1947, 2, 337.—Abstract.

4263. Hardy, Legrand H., Rand, Gertrude, & Rittler, M. Catherine. **The Ishihara test as a means of detecting and analyzing defective color vision.** *J. gen. Psychol.*, 1947, 36, 79-106.—The Ishihara test for color-blindness was evaluated as a means of detecting and classifying defective color vision upon the basis of the responses of 106 subjects who were classified by a battery of tests, including the Ishihara, as normals, anomalous trichromats, dichromats, low color discrimination sufficient to constitute defect, and low normals. The results indicate: (1) the 5th edition of the Ishihara test when properly administered affords a good rough device for screening red-

green defectives if a performance score of 60 is taken as the critical score; (2) no analysis as to type or extent of defect can be based on performance scores; (3) Plate 4 is a practically perfect screening test when used properly; (4) a comparison of the average scores and the range of scores for the different types of color defectives does not reveal marked differences in the 5th, 7th, and 9th editions of the test; (5) other things being equal, plates bearing 2 digits afford better tests of color defect than those having only 1 digit; (6) a critical score can not be established for the 10 Ishihara plates reproduced in the American Optical test. 16 references.—*C. F. Scofield.*

4264. Harvard University. Graduate School of Business Administration. Altered posture and stereo acuity. (1942; Publ. Bd. No. L 55807.) Washington, D. C.: U. S. Dep. Commerce, 1947. Pp. 18. \$1.00, microfilm: \$2.00, photostat.—A total of 84 experiments were carried out in the study of the effects of posture on stereo range estimates. Fifty-three of these experiments were concerned with the response to altered posture on the tilt table and with the response to lowered blood pressure (nitroglycerin) administered during the process of making range-estimates. The later experiments were carried out both while sitting, and during tilt table experiments. Thirty-one experiments were carried out during periods of prolonged standing (3 hours). The general conclusion from these postural studies is that stereo-acuity remains relatively unaffected, i.e., the changes in precision were less than 12 secs. of arc regardless of the fairly severe physiological effects resulting from the altered posture imposed by these experiments.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce.*)

4265. Harvard University. Graduate School of Business Administration. An apparatus for measuring stereo and vernier acuity. (1942; Publ. Bd. No. L 62426.) Washington, D. C.: U. S. Dep. Commerce, 1947. Pp. 3. \$1.00, microfilm; \$1.00, photostat.—A description and photograph of an apparatus used in studying the influence of certain physiological variables on range estimates are contained in this report. A large circular light image of a uniformly illuminated milk-glass plate is formed in the plane of the target by the objective lens of the instrument. The target is held in a bronze mount. The rest of the instrument comprises a long focus (ca. 4 inches) binocular microscope supported on a rigid base. Qualifications of subjects used in experiments are given.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce.*)

4266. Harvard University. Graduate School of Business Administration. Apparent distance: binocular vergence and target size. (1942; Publ. Bd. No. L 62429.) Washington, D. C.: U. S. Dep. Commerce, 1947. Pp. 4. \$1.00, microfilm; \$1.00, photostat.—Results, method, and apparatus used for measuring apparent distance as determined by binocular vergence are described. The conclusion is that the average apparent distance, as a function of the converged distance appears to be independent of

the size of the target for the sizes studied (1, 2, and 4 cms.). This belief, however, needs to be validated by more data.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce.*)

4267. Harvard University. Graduate School of Business Administration. The limits of binocular fusion: binocular vergence. (1942; Publ. Bd. No. L 62428.) Washington, D. C.: U. S. Dep. Commerce, 1947. Pp. 7. \$1.00, microfilm; \$1.00, photostat.—Results, method, and apparatus used in this experiment are described. For proximal distances (about one meter) and for a given target-reticle assembly, the limits of binocular fusion in angular units were found to be essentially constant. A knowledge of these limits was desired because it is only within these limits that binocular disparities can be effective for normal stereo vision.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce.*)

4268. Harvard University. Graduate School of Business Administration. The limits of binocular fusion: target-size. (1942; Publ. Bd. No. L 62427.) Washington, D. C.: U. S. Dep. Commerce, 1947. Pp. 5. \$1.00, microfilm; \$1.00, photostat.—This report describes results, method, and apparatus used in an experiment to determine whether or not the size of the target influenced the total range throughout which binocular retinal disparity may be effective in producing changes in apparent distance. The conclusion is that angular limits of binocular fusion increase as the angular size of the target increases.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce.*)

4269. Harwood, David M. (2969 East Florence Ave., Huntington Park, Calif.) Treatment of strabismus. *Ann. West. Med. Surg.*, 1947, 1, 191-197.—Strabismus in children is a very real handicap, and treatment should be instituted at earliest possible moment, first to prevent the development of psychological handicaps, and second, to prevent permanent amblyopia and to develop binocular vision with depth perception. Cases of strabismus in children can be divided into two large groups: (1) paralytic strabismus in which there is a limitation of motion in one direction; (2) concomitant strabismus in which the amount of deviation is the same in all cardinal directions of gaze. The treatment may be optical, orthoptic, surgical or a combination of any of these methods. Often one has to be satisfied merely with a good cosmetic correction.—*F. C. Sumner.*

4270. Jampolsky, P. Sensibilité proprioceptive et perception spatiale visuelle. (The proprioceptive sense and visual spatial perception.) *J. Psychol. norm. path.*, 1946, 39, 439-444.—The autokinetic effect is explained as the result of kinesthetic impulses arising from the extrinsic muscles of the eye as they maintain it in a fixed position. The character of the apparent movement is determined by an adaptation phenomenon which appears to have a wave-like character, suggesting in that respect an analogy with the alternation of positive and negative afterimages on the retina. Darkness is not an indispensable condition of the illusion. These conclusions

are based on experiments in which the author served as his own subject.—*M. Sheehan.*

4271. Johnson, E. Parker. (*Brown U., Providence, R. I.*) The electrical response of the human retina during dark-adaptation. *Amer. Psychologist*, 1947, 2, 293-294.—Abstract.

4272. Kappauf, William E. (*Princeton U., N. J.*) Some observations on the effect of removal of the visual cortex on reflex responses in the cat. *Amer. Psychologist*, 1947, 2, 349-350.—Abstract.

4273. Low, Frank N. (*Sch. Med., West Virginia U., Morgantown.*) The peripheral motion acuity of 50 subjects. *Amer. J. Physiol.*, 1947, 148, 124-133.—Using excursions, angular deviations, and exposure times comparable with measurements of peripheral form recognition (Landolt broken ring) the threshold of form perception of an object moving along the horizontal meridian at a constant rate and illumination was ascertained. The objects moved toward or away from the line of central vision with exposures of 30°-45°, 45°-60° and 60°-75°. The reliability of the measurements was 0.82. Peripheral motion acuity was 60% of that of stationary. Scores on tests going in and coming out correlate 0.86. Motion acuity "falls off rapidly between 30° and 60° from the line of vision in 72% of cases." No practice effects were revealed.—*R. B. Bromiley.*

4274. Malmö, R. B. (*McGill U., Montreal, Canada*), & Grether, W. F. Further evidence of red blindness (protanopia) in Cebus monkeys. *J. comp. physiol. Psychol.*, 1947, 40, 143-147.—The writers report two experiments on a castrated male Cebus monkey. Using a discrimination technique and hunger motivation, they determined the brightness value of the white which was responded to as equal in brightness to a given red. "The white which matched the red in brightness for this animal was about one-third the brightness required for a similar match by rhesus monkeys and human beings. This amount of brightness reduction of red corresponds closely to that in human protanopia." In the second experiment the neutral point of a descending series of spectral colors paired with white was determined. Discrimination broke down in the region of 510 mμ and 520 mμ, indicating a colorless region of the spectrum for this animal similar to protanopic discrimination in humans.—*L. I. O'Kelly.*

4275. Reese, T. W. (*Mount Holyoke Coll., South Hadley, Mass.*) The anchoring effect in the direct estimation of visual inclination. *Amer. Psychologist*, 1947, 2, 298.—Abstract.

4276. Riggs, L. A., & Johnson, E. P. (*Brown U., Providence, R. I.*) Electrical measurements of the adaptation of the human retina to constant levels of illumination. *Amer. Psychologist*, 1947, 2, 294-295.—Abstract.

4277. Röscher, Jean. Vision stéréoscopique et mécanisme cérébral. (Stereoscopic vision and cerebral mechanism.) *J. Méd. Bordeaux*, 1946, 123, 294-296.—Of the 5 modes of visually perceiving the third dimension: (1) judgment and experience; (2) move-

ments of the head; (3) accommodation; (4) convergence of the two visual lines; (5) the stereoscopic sense which involves the fusion of the two differently shaped retinal images of the right and the left eye, it is the last mentioned which has presented the great difficulty in the matter of a definitive explanation. Theories of this fusion fall into three categories: physical (corresponding points, common pathway), reflexological (mechanism situated in external geniculate body for releasing reflexes of convergence), and psychological (association). As far as a definitive answer the author does not think we know more about the true cause of this phenomenon than did Descartes who referred it to *agents inconnus*. However, it is the author's belief that these unknown agents await scientific discovery on the physical rather than on the psychic side.—*F. C. Sumner.*

4278. Schachter, Stanley, & Chapanis, Alphonse. Distortion in glass and its effect on depth perception. (AAF ATSC Engng Div. Memo. Rep. No. TSEAL3-695-48B, 1945; Publ. Bd. No. L 60612.) Washington, D. C.: U. S. Dep. Commerce, 1947. Pp. 39. \$1.00, microfilm; \$3.00, photostat.—This report presents data showing the effect of optical deviation and distortion in glass on depth perception as measured by the Howard-Dolman apparatus. An experiment was run with five samples of glass at five angles of incidence 0°, 20°, 60°, and 80°. Results showed that both the quality of the glass and angle of incidence affect depth perception, and that angle of incidence has a much greater effect. The original experiment to determine the effect of distortion in glass on depth perception is described in appendix I, and the revised experiment in appendix II. Details of a control experiment to determine the effect of deviation and decreased illumination on depth perception are given in appendix III.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce.*)

4279. Scully, John. Colour vision testing in school children. *Med. Offr.*, 1947, 77, 207-208.—A report is given of an investigation into defective color vision in elementary, secondary, technical, and art schools in Salford during the autumn of 1946. The Collins-Drever Group test and the Ishihara test were used. The 3,198 children tested were all between ages 13 and 18. Of 2,056 boys 220 made mistakes in the group test and of these 106 showed an established degree of color vision defect and 21 a defect of minor degree. Of 1,142 girls 44 made mistakes in the group test. On individual testing with the Ishihara 4 girls were found to have a major defect and 3 a minor abnormality. In other words, 4.9 per cent of boys against 0.4 per cent of girls showed established color defect.—*F. C. Sumner.*

4280. Sewig, Rudolf. [Ed.] *Handbuch der Lichttechnik*. Erster Teil: Grundlagen, Lichtquellen, Lichtmessung, Baustoffe. Zweiter Teil: Beleuchtungstechnik. (Handbook of light technology. First part: Principles, sources of light, measurement of light, structural material. Second part: Illumination technology.) Ann Arbor, Mich.: J. W. Edwards, 1946. Vol. 1. Pp. xviii + 1-426; Vol. 2. Pp. viii

+ 427-1056. \$36.00.—The handbook was originally published by Julius Springer at Leipzig in 1938 and was reprinted by the authority of the Alien Property Custodian. It consists of 10 sections, written by 41 authors and covering a large part of the science and technology of illumination. Psychologists will find especially relevant material in chapters by H. Korte (visual photometry), R. Sewig (objective photometry), W. Arndt (physiology of vision: seeing in colored light), E. Wittig, K. Lackner, K. Wiegand (illumination at work and in the schools, at home, in advertising) and the section on illumination problems related to transportation.—*J. Brožek.*

4281. Stoddard, Kenneth B. (*Sch. Optometry, U. California, Berkeley.*) **Myopia—the present status.** *Amer. J. Optom.*, 1947, 24, 313-320.—The idea that use of the eyes under unfavorable conditions may lead to structural changes associated with myopia is frequently repeated with various suggestions as to how such changes come about. Actually, evidence does not support this notion. Myopia seems rather to depend on biological variation in the 4 factors which determine the refractive state of the eye: refractive power of the cornea and of the lens, depth of anterior chamber, and axial length of the eye. Rushton's method of determining the axial length of the living eye has been applied by Stenström to 1,000 unselected cases, with measurements also of corneal power, depth of anterior chamber, axial length, and total power. These factors show approximately normal distribution except for some skewness toward longer axial lengths. Refractive state of the eye, ranging from +10.00 to -13.00 D., showed little correlation with any factor except axial length (-0.76). Factors which influence growth patterns, such as heredity, malnutrition, and endocrine dysfunction, may contribute to development of myopia; training directed to changing refractive components can hardly be expected to correct ametropia.—*M. R. Stoll.*

4282. Trent, Sumner E. (*Harvard U., Cambridge, Mass.*) **Narcosis and visual contour clarity.** *J. gen. Psychol.*, 1947, 36, 65-78.—A modification of the Dimmick differential color mixer was used to present a light gray ring on a darker background. A "threshold for sharp boundary" was obtained for each of 16 S's under normal conditions and after the administration of 1.5-3.0 grains of nembutal. Visual clarity was very significantly enhanced by nembutal narcosis (probability 0.996). The results support the prediction from electrophysiology that contour clarity would be expected to vary inversely with general neural excitability, rather than the prediction of Koffka to the effect that contour clarity would vary directly with the degree of general neural excitability. The findings are presumptive evidence for a two-stage theory of visual perception, the first or subcortical stage reflexological, the second or cortical stage dynamic. 27 references.—*C. F. Scofield.*

4283. Wherry, Robert J. (*Personnel Research Sect., AGO, Washington.*) **A factorial study of visual**

acuity, depth, and phoria measurements with three commercial screening devices. *Amer. Psychologist*, 1947, 2, 298.—Abstract.

4284. Wright, John E. (412 David Broderick Tower, Detroit, Mich.) **The versatility of the cheiroscope in diagnosis and training.** *Amer. J. Optom.*, 1947, 24, 335-339.—Any stereoscopic instrument with a septum and drawing stage can be used as a cheiroscope. The subject is usually asked to trace a target visible to one eye in the field visible only to the other eye. The cheiroscope is used for training in eye-hand coordination and also provides for demonstration of deviations from normal in respect to eye posture and coordination.—*M. R. Stoll.*

AUDITION

4285. Garner, W. R. (*John Hopkins U., Baltimore, Md.*) **The loudness of repeated short tones.** *Amer. Psychologist*, 1947, 2, 290.—Abstract.

4286. Jongkees, L. B. W., & Groen, J. J. **Considerations regarding the secondary after-sensations caused by a stimulation of the semicircular canal system.** *J. Laryng.*, 1946, 61, 241-244.—It is pointed out that secondary after-sensations, as well as the first after-sensation following rotation, need not depend on central processes for explanation. One alternative is that distortion of the cupula, resulting from an impulse above 60°/sec., and its return to normalcy during the first after-sensation, is followed by stimulation of the nerve terminals in the cupula due to its elastic after effects.—*M. H. Groves.*

4287. Koester, Theodore, & Schoenfeld, W. N. (*Columbia U., New York.*) **Some comparative data on differential pitch sensitivity under quantal and non-quantal conditions.** *J. gen. Psychol.*, 1947, 36, 107-112.—Two highly practiced subjects were tested for differential pitch sensitivity under two methods of stimulus presentation: a quantal procedure, in which only a detection of change was required, and a modified form of the method of constant stimuli requiring a detection of the direction of the change. In both cases standard and comparison stimuli were separated by zero time interval. Differential pitch sensitivity proved to be better under the constant stimuli conditions than under the quantal conditions. To achieve close to 100% detection of change under the quantal procedure required increments almost twice as great as were needed for similarly correct reports of direction of change in the non-quantal procedure. The data secured by the quantal procedure exhibited neither the rectilinear nor the integral relation demanded by the quantum theory of discrimination.—*C. F. Scofield.*

4288. Meyerson, Lee. (*Vassar Coll., Poughkeepsie, N. Y.*) **A verbal audiometric test for young children.** *Amer. Psychologist*, 1947, 2, 291.—Abstract.

4289. Miller, George A. (*Harvard U., Cambridge, Mass.*) **An auditory analogue of visual flicker.** *Amer. Psychologist*, 1947, 2, 291.—Abstract.

4290. Pollack, Irwin. (Harvard U., Cambridge, Mass.) The threshold of audibility and the threshold of tonality. *Amer. Psychologist*, 1947, 2, 290-291.—Abstract.

4291. Silverman, S. R., et al. Tolerance for pure tones and speech in normal and hard-of-hearing ears. (OSRD Rep., No. 6303, 1946; Publ. Bd. No. L 58239.) Washington, D. C.: U. S. Dep. Commerce, 1947. Pp. 97. \$2.00, microfilm; \$7.00, photostat.—The investigation described in this report represents a systematic study of the quantitative and qualitative nature of the tolerance limits for speech and pure tones of normal and deafened human ears. With reference to the Aural Rehabilitation Programs of the Armed Forces, it was hoped to obtain data pertinent to the design characteristics of future hearing aids, and to provide information which could guide procedures in the clinical selection of hearing aids. The thresholds of discomfort, tickle and of pain produced by pure tones and speech were determined in approximately 16,000 observations on 46 normal and 46 hard-of-hearing ears, the latter representing a fairly balanced distribution of clinical types of deafness. The data indicate that 130 db appears to be the greatest useful maximum output of a hearing aid.—(Courtesy *Bibl. scient. industr. Rep.*, U. S. Dep. Commerce.)

[See also abstracts 4298, 4311, 4314, 4348, 4590, 4617, 4618, 4619, 4621, 4625, 4636, 4637.]

RESPONSE PROCESSES

4292. Aschkenasy-Lelu, Paule. (École Normale Supérieure, Paris.) Le choix des aliments protéiques en fonction du besoin azoté chez le rat. (The choice of protein foods by the rat as a function of his nitrogen need.) *J. Psychol. norm. path.*, 1946, 39, 445-466.—The author concludes from a series of experiments testing the theory of self-selection that physiological need plays only a secondary role in determining the choice of protein foods in contrast with its primary role in increasing the salt consumption of Richter's adrenalectomized rats. After 8-12 days of protein-deprivation individual rats appeared to choose between protein and non-protein foods in terms of place habits, response to novelty, or familiarity of diet, although group results showed the needed food to be slightly preferred on the average. When immediate choice between starch and casein was used as the criterion of selection, the results depended upon individual preferences and repulsions unrelated to bodily need. Similar preferences appeared when a choice was allowed between two forms of casein. Certain strains of rats consistently rejected one form in favor of the other and this choice tendency was apparently paralleled by "personality" differences between the respective strains. Individual preferences for starch or casein showed some consistency even after 2 to 4 months of hypo- or hyperprotein diet, although results in this series were not conclusive.—*M. Sheehan*.

4293. Bare, John K. (Brown U., Providence, R. I.) The sodium chloride preference of the white rat in a free-choice situation. *Amer. Psychologist*, 1947, 2, 331.—Abstract.

4294. Baumgarten, Franziska. (U. Berne, Switzerland.) Zur Psychologie der Aggression. (On the psychology of aggression.) *Gesundh. u. Wohlf.*, 1947, 27, 146-152.—Criticism is directed against current tendencies of making the terms death-instinct, hate, destructive instinct, greed, pugnacity, hostility, and usurpation synonymous with aggression, and of branding all aggression as unhealthy. The author would clarify the concept of aggression. Five species or partial-instincts of aggression are to be distinguished: self-preservation-instinct; covetousness or greed; reactive aggression upon provocation; urge to seizure by force, and pugnacity. Some of these forms of aggression are healthy; some unhealthy. In greed the author sees aggression in its most unhealthy manifestation and the primary cause of discord among human beings. If wars are to be circumvented this deeply anchored form of aggression must be so weakened through training and reconditioning that it no longer possesses effective force.—*F. C. Sumner*.

4295. Berryman, George H., Henderson, Charles R., et al. (Army Medical Nutrition Laboratory, Chicago, Ill.) Effects upon young men consuming restricted quantities of B-complex vitamins and protein, and changes associated with supplementation. *Amer. J. Physiol.*, 1947, 148, 618-647.—Seven men ages 23 to 28 were maintained for 15 to 18 weeks upon a diet containing restricted quantities of B-complex vitamin and 45 grams of protein (94% vegetable). Two controls received supplementals to the diet in the form of capsules, others received placebos. Diets were gradually supplemented first with thiamine, then protein and/or new menus were added, then nicotinamide and/or additional food and riboflavin, and finally a luxurious diet. The 12 weeks preceding the experiment were devoted to adapting the subjects to the experimental conditions. Physical tests (bicycle, treadmill, and Harvard step), psychological tests (Johnson Code, hand steadiness, three pursuitmeters, ataximeter, and Minnesota Multiphasic Personality Inventory) and biochemical assays were carried out during the course of the experiment. Each experimental subject showed a definite decrease of capacity as measured by the physical tests, which persisted with variations until changing to the third supplemented diet. On the psychomotor tests some subjects deteriorated while others improved. All showed increased body sway, some general improvement appeared on the second supplemented diet. The personality inventory showed marked increase in hypochondriasis, depression, and hysteria which gradually returned to normal following the third and other supplementations. Clinical and biochemical findings are reported.—*R. B. Bromiley*.

4296. Bindra, Dalbir. (Harvard U., Cambridge, Mass.) Water-hoarding in rats. *J. comp. physiol.*

Psychol., 1947, 40, 149-156.—"After water deprivation rats hoard water pellets just as, after food deprivation, they hoard food pellets. Water pellets are rolls of cotton soaked in water. Two experiments were designed to reveal the characteristics of water hoarding. The first experiment led to these conclusions: (1) the curve of onset of water hoarding is similar to that of food hoarding. It rises sharply at first and then declines. (2) The extinction of water hoarding, brought about by cessation of water deprivation is, like food hoarding, a slow process. (3) Good water hoarders are also good food hoarders. The rank order coefficient of correlation is .72. The second experiment showed that rats hoard food when they have been deprived of food and hoard water when they have been deprived of water, in a situation where they have their choice of food and water." The writer discusses the hypothesis that hoarding is instinctive and decides that the evidence does not substantiate that possibility. The question remains: "How does such a wide range of physiological and environmental conditions lead to the same pattern of behavior?"—L. I. O'Kelly.

4297. Brožek, Josef, Franklin, Joseph C., Guetzkow, Harold, & Keys, Ancel. (U. Minnesota, Minneapolis.) Recovery after 12 weeks of controlled nutritional rehabilitation following experimental semi-starvation in man. Part I. Experimental design and physical changes. *Amer. Psychologist*, 1947, 2, 329-330.—Abstract.

4298. Davis, R. C. (Indiana U., Bloomington.) Motor components of responses to auditory stimuli: the relation of stimulus intensity and instructions to respond. *Amer. Psychologist*, 1947, 2, 308.—Abstract.

4299. Dorcus, Roy M. The influence of physiologically effective doses of epinephrine on vestibularly induced nausea. (CAA Div. of Res. Rep. No. 5, 1942; Publ. Bd. No. M 50285.) Washington, D. C.: U. S. Dep. Commerce, 1947. Pp. 11. \$1.00, microfilm; \$1.00, photostat.—This study describes the results of an investigation of the effects of epinephrine on the frequency of vomiting under conditions of vestibular stimulation. Its purpose was to test one aspect of a particular hypothesis of the mechanism of air sickness, i.e., the hypothesis that the nausea and vomiting of air sickness are the direct result of fear. 30 subjects were tested, all male college students, aged 19 to 23.—(Courtesy *Bibl. scient. industr. Rep.*, U. S. Dep. Commerce.)

4300. Farber, I. E. (U. Iowa, Iowa City.) Response fixation under anxiety and non-anxiety conditions. *Amer. Psychologist*, 1947, 2, 319.—Abstract.

4301. Franklin, Joseph C., Brožek, Josef, Guetzkow, Harold, & Keys, Ancel. (U. Minnesota, Minneapolis.) Recovery after 12 weeks of controlled nutritional rehabilitation following experimental semi-starvation in man. Part II. Motor, sensory, and intellectual functions. *Amer. Psychologist*, 1947, 2, 330.—Abstract.

4302. Fraps, R. M., Neher, B. H., & Rothchild, I. The imposition of diurnal ovulatory and temperature rhythms by periodic feeding of hens maintained under continuous light. *Endocrinology*, 1947, 40, 241-250.—Battery caged hens, under constant and uniform illumination, maintained temperature and laying cycles similar to those of a 14-hour light-day when fed from 8:00 A.M. through 4:00 P.M. When fed from 8:00 P.M. through 4:00 A.M. the temperature and laying cycles were reversed after about 10 days. It is concluded that the time of lay and the diurnal temperature cycle may be associated with those factors determining bodily activity rather than with photoperiodicities.—M. H. Groves.

4303. Guetzkow, Harold, Brožek, Josef, Franklin, Joseph C., & Keys, Ancel. (U. Minnesota, Minneapolis.) Recovery after 12 weeks of controlled nutritional rehabilitation following experimental semi-starvation in man. Part III. Personality. *Amer. Psychologist*, 1947, 2, 330-331.—Abstract.

4304. Haggard, Ernest A., & Jones, Harold E. (U. California, Berkeley.) The comparative discriminatory value of various measures of GSR for words of differing affective value. *Amer. Psychologist*, 1947, 2, 349.—Abstract.

4305. Hall, Calvin S., & Witt, Governor. (Western Reserve U., Cleveland, O.) The genetics of audiogenic seizures in house mice. *Amer. Psychologist*, 1947, 2, 324.—Abstract.

4306. Hofman-Bang, A. Complications and dangers in the use of hypnosis; a brief survey. *Acta psychiat.*, Kbh., 1946, 21, 365-374.—The following complications are discussed: (1) post-hypnotic headache, vertigo, drowsiness, etc.; (2) "auto-suggestive hypnosis," in which the subject acts contrary to the hypnotist's suggestions; (3) prolonged sleep; (4) occurrence of tremors, fears, excitements which have not been suggested; (5) "spontaneous somnambulism," a state, usually of an erotic nature, in which early life experiences are recalled. The chief danger mentioned is the possibility of the occurrence of criminal acts suggested during the hypnotic trance.—A. L. Benton.

4307. Holzapfel-Meyer, Monika. Affektive Grundlagen tierischen Verhaltens. (Affective foundations of animal behavior.) *Schweiz. Z. Psychol. Anwend.*, 1943, 2, 19-42.—During the first third of this century studies of animal behavior, especially in America, have been concerned almost exclusively with learning and intelligence. The present article is a survey of work done, largely in Europe, on the dynamic-affective structure of animal behavior. Certain principles of valence, territorial life space, social dominance, and affective disturbance can also be observed in man.—K. F. Muenzinger.

4308. Kennedy, John L., & Travis, Roland C. (Tufts Coll., Medford, Mass.) Prediction and automatic control of alertness. II. Experiments on control of alertness during a continuous tracking performance. *Amer. Psychologist*, 1947, 2, 331-332.—Abstract.

4309. Lacey, Oliver L., & Siegel, Paul S. (U. Alabama, Tuscaloosa.) An appropriate unit for the measurement of the galvanic skin response. *Amer. Psychologist*, 1947, 2, 349.—Abstract.
4310. Lazovik, A. D. (U. Pittsburgh, Pa.), & Patton, R. A. The relative effectiveness of auditory stimulation and motivational stress in precipitating convulsions associated with magnesium deficiency. *J. comp. physiol. Psychol.*, 1947, 40, 191-202.—Although the role of "conflict" in producing audio-genic seizures is questionable, the possibility was investigated of inducing such seizures by forced reactions in an insoluble problem situation in rats that had been made sensitive by a controlled deficiency of magnesium. In a situation where 19 rats had learned a discrimination problem in a Lashley jumping apparatus and had then been forced by electric shock to face insoluble problems, no convulsions developed in spite of an increasing magnesium deficiency which had been imposed during the experimental period. Independent sound tests, however, indicated that 17 of 18 magnesium-deficient animals showed increased severity of convulsions as a reaction to sound. Some of the animals showed spontaneous seizures in the absence of sound stimulation. "It was concluded that 'conflict' was not effective in inducing seizures in the discrimination situation and, if present at all, was not a significant variable in the sound-induced seizures observed in the present experiments." 17 references.—L. I. O'Kelly.
4311. Malmo, Robert B., Shagass, Charles, & Davis, John F. Pain as a standardized stimulus for eliciting differential physiological responses in anxiety. *Amer. Psychologist*, 1947, 2, 344.—Abstract.
4312. Mürk, Anna. Beitrag zur Psychologie neurotisch bedingter Stimmungen. (Contribution to the psychology of neurotically determined moods.) *Schweiz. Z. Psychol. Anwend.*, 1947, 6, 89-113.—Through analysis of a few case histories the origins and manifestations of moods are discussed. It is shown how the uncovering of motives is essential for a favorable change of moods. The theories of Bleuler, Binder, Jentsch, and Freud are critically discussed.—K. F. Muenzinger.
4313. de Montpelier, Gérard. (Louvain U., Belgium.) Note sur le rythme dans les mouvements volontaires de la main. (Note on rhythm in voluntary movements of the hand.) *J. Psychol. norm. path.*, 1946, 39, 467-473.—A group of experiments undertaken to determine the effect of rhythm on the precision of spatial movements suggest that: (1) rhythmic movements can be executed more precisely than arrhythmic at high speeds but have no significant advantage at lower speeds; (2) practice results in greater relative improvement in the arrhythmic than in the rhythmic movements; (3) rhythm stamps itself characteristically on motor patterns—evidence being that 9 judges made better than chance identifications of kinesiograms of spatial patterns traced in a variety of rhythms by the same subjects on 2 separate occasions.—M. Sheehan.
4314. Patton, R. A. (Western State Psychiatric Institute, Pittsburgh, Pa.) The incidence of middle-ear infection in albino rats susceptible to sound-induced seizures. *Amer. Psychologist*, 1947, 2, 320.—Abstract.
4315. Richter, Curt P. (Johns Hopkins Hosp., Baltimore, Md.) Biology of drives. *J. comp. physiol. Psychol.*, 1947, 40, 129-134.—Although the problem of motivation can become exceedingly complex, Richter believes that a concrete basis for the study of drives does exist: "It is that biological functions of animals can be understood in terms of efforts made by the total organism to maintain a constant internal environment." Although the primary regulation of the steady state in the internal environment takes place within the organism through the homeostatic mechanisms, the external behavior of the total organism is also significant. Compensatory self-regulation of diet in rats with posterior lobe pituitary lesions, adrenalectomized rats, parathyroidectomized rats, and pancreatectomized rats has been demonstrated. Nest building activities of thyroidectomized animals is also cited. In answer to the question of the mechanisms involved in this regulatory behavior, two explanations are offered. Regulation may be due to experience, the animal noting the beneficial effects of particular activities, or it may be a matter of taste physiology. In any event, Richter concludes that the drives "have their origin in the deep biological urge of mammals to maintain a constant internal environment. The activities may be very diverse, and there may be many different goals, but the underlying biological drives remain the same."—L. I. O'Kelly.
4316. Riess, Bernard F. (Hunter Coll., New York.) Some applications of the general adaptation syndrome to current problems in experimental shock in animals. *Amer. Psychologist*, 1947, 2, 325.—Abstract.
4317. Russell, E. S. Characteristics of instinctive behavior as illustrated by the Scarabaeidae. *Sci. Progr., Lond.*, 1947, 35, 12-22.—The behavior of dung beetles of the genus *Scarabaeus* in scenting out dung, moulding a ball of it, transporting the ball and burying it some distance from the find is described in detail. Also the effects upon the beetle's behavior of experimental modifications of the situation are recounted. This perception-action disposition is inborn, owes nothing to previous experience or learning, appears at a definite stage of the life-cycle, ready to function. The course of action is fairly stereotyped but capable of modification according to the sensed or perceived situation. The ball-making may be omitted or abridged, if dung is too hard or competitors too numerous. The action is persistent with varied effort yet the scarab does not appear to have a prior notion of the goal or definite plan of action. However, there appears to be some forward looking element in the behavior, pointing at least to the immediate goal of the action actually in progress. The dung beetle's behavior is certainly not purposive in the human sense. The instinctive animal "knows how" to act in a given normal situa-

tion but it does not "know why" it should so act.—*F. C. Sumner.*

4318. Scott, J. P. Non-adaptive behavior resulting from a series of defeats in fighting mice. *Amer. Psychologist*, 1947, 2, 324-325.—Abstract.

4319. Searle, Lloyd V. (Naval Research Laboratory, Washington.) Application of the "inverted" factor analysis technique to the study of hereditary behavior types in rats. *Amer. Psychologist*, 1947, 2, 320.—Abstract.

4320. Sinha, B. M. Why life is a failure. A psychological study. *Indian med. Rec.*, 1947, 67, 57-59.—Somewhat in Emersonian fashion the author sees as reasons why so many never win a top place in life: failure of most people to discover their secret impulse, their basic motive; allowing mores, laws, traditions to interfere with one's ambition; harnessing of oneself to careers or professions not of one's own free choice and liking; the handicapping effects of fear; want of right sex partner and of the inspiration therefrom; putting the satisfaction of one's stomach and animal passions above one's deepest yearning.—*F. C. Sumner.*

4321. Stellar, Eliot. (Brown U., Providence, R. I.) The effect of experimental alteration of metabolism on the hoarding behavior of the white rat. *Amer. Psychologist*, 1947, 2, 325.—Abstract.

4322. Stokvis, Berthold. Graphologische Untersuchung als Mittel zur Nachprüfung der Theorie der Hypnose. (Graphological investigation as a means of testing the theory of hypnosis.) *Schweiz. Z. Psychol. Anwend.*, 1943, 2, 64-83.—Several subjects were asked for one sample of handwriting while in a normal state, and for 2 while in hypnosis, one during a suggestion of sadness and the other of joy. No differences in handwriting could be observed. It is now possible to understand, but not justify, the scepticism regarding the existence of hypnosis.—*K. F. Muenzinger.*

4323. Walker, Robert Y. (U. Maryland, College Park), Matheny, W. Guy, & Hemphill, John K. The evaluation of a psycho-motor task for use in the study of warning signals. *Amer. Psychologist*, 1947, 2, 332.—Abstract.

[See also abstracts 4235, 4238, 4239, 4332, 4413, 4457, 4526, 4633, 4662.]

COMPLEX PROCESSES AND ORGANIZATIONS

4324. Mowrer, O. H. (Harvard U., Cambridge, Mass.) On the utility of parrots and other birds in the study of language development—a preliminary report. *Amer. Psychologist*, 1947, 2, 279-280.—Abstract.

4325. Tesnière, Lucien. Phonologie et psychologie. (Phonology and psychology.) *J. Psychol. norm. path.*, 1946, 39, 405-438.—The mechanical-historical approach of the phoneticist to language is contrasted with the more fruitful psychological-teleological approach of the phonologist. Though

the phonemes of any language are pressed toward modification by a variety of forces, they tend to form and maintain in relative equilibrium oppositional systems which reduce to a minimum the confusion which an excess of homonyms would produce. The stability of the opposition of phonemes depends upon the "semantic load" or the degree of confusion which would occur if the polarity ceased to exist. The theory that phonemal balance is constantly being reestablished as physical and mechanical influences effect changes in language provides an organismic and a psychological approach to such problems as vowel and consonant mutations in words adopted from other languages, the interrelationship between sentence structure and pronunciation, ontogenesis of language sounds and their disappearance in reverse order in aphasia, disputed pronunciation of Latin, and the shortcomings of artificial languages such as Esperanto, constructed logically rather than evolved psychologically.—*M. Sheehan.*

LEARNING AND MEMORY

4326. Ammons, R. B. (U. Denver, Colo.) A determination of empirical constants in rotary pursuit performance. *Amer. Psychologist*, 1947, 2, 308-309.—Abstract.

4327. Blodgett, Hugh C., & McCutchan, Kenneth. (U. Texas, Austin.) Anticipation and place learning. II. Anticipation in a visually homogeneous environment. *J. comp. physiol. Psychol.*, 1947, 40, 165-175.—The writers studied anticipatory goal-turning responses in white rats. The animals were given one trial a day for 34 days under 23.5 hour hunger motivation. Under these conditions learning occurred in the anti-final culs but not in the ipso-final culs nor in the final reward section. Maximal anticipatory behavior was shown in the initial ipso-final cul. The number of errors in all ipso-final culs was significantly greater than in all anti-final culs. To test the hypothesis that response alternation tendencies were operative in this learning situation a second experiment was made with a simple elevated maze in which the subject made a 90° turn, and then traversed a straight path to a bifurcation, either arm of which led to a food box. Two groups of rats were used. For one group the straight maze path was 14 inches long, for the other group the path was 38 inches long. The short-path group showed significantly more alternation behavior than the long-path group. The writers' final conclusions for the general situation in which few if any cues are offered for place learning are: (1) animals are unable to make a precise patterned response, (2) an alternation tendency is operative, (3) there is a general turning disposition congruous with the final goal response, and (4) that "anticipatory behavior is an aspect of the absence of place learning" (see 21: 1817).—*L. I. O'Kelly.*

4328. Bugelski, B. R. (U. Buffalo, N. Y.) An attempt to reconcile the "unlearning" and reproductive inhibition controversy. *Amer. Psychologist*, 1947, 2, 311-312.—Abstract.

4329. Chastaing, Maxime. Impressions d'un amnésique. (The impressions of an amnesia sufferer.) *J. Psychol. norm. path.*, 1946, 39, 474-478.—The patient's own account of his awakening to a realization of his amnesia 20 minutes after he had been injured in a football game is quoted, as well as his analysis of the anterograde amnesia which blocked out integrated recollection of his brilliant performance on the football field from the moment he had recovered consciousness until the moment, 20 minutes later, when, according to his interpretation, the amnesia must have begun. He rejects the common explanation of his behavior during that interval as "unconscious," and points out that any description of it as a doubling of personality is based on the fallacy of straddling the viewpoints of player and observer, neither of which separately at any time gives evidence of unconscious behavior.—M. Sheehan.
4330. Daniel, William J. (U. North Carolina, Chapel Hill.) How cooperatively do individual rats solve a problem in a social situation? *Amer. Psychologist*, 1947, 2, 300.—Abstract.
4331. Ehrenfreund, David. (U. Iowa, Iowa City.) An experimental test of the continuity theory of discrimination learning with pattern vision. *Amer. Psychologist*, 1947, 2, 316.—Abstract.
4332. Grant, David A., & Schneider, Dorothy E. (U. Wisconsin, Madison.) Intensity of the conditioned stimulus and strength of conditioning of the GSR. *Amer. Psychologist*, 1947, 2, 348.—Abstract.
4333. Grice, G. Robert. (Brown U., Providence, R. I.) The relation of secondary reinforcement to delayed reward in visual discrimination learning. *Amer. Psychologist*, 1947, 2, 300.—Abstract.
4334. Haire, M. The role of repetition in discriminative learning. In *Harvard University, Summaries of theses . . . 1942*. Cambridge, 1946. Pp. 358-360.—Abstract of Ph.D. thesis.
4335. Hall, William E., & Cushing, James R. (U. Nebraska, Lincoln.) The relative value of three methods of presenting learning material. *J. Psychol.*, 1947, 24, 57-62.—3 army training films were selected representing 3 types of subject matter. Film script and illustrations were used to make reading and lecture material on the same topics as those treated by the films. 3 groups of college students matched on Q, L, and total scores of the ACE test served as subjects in an investigation of the relative value of the 3 types of presenting learning material. It was concluded that the 3 methods of presenting learning material produce 3 different types of learning, and that one method cannot be substituted for another. The study suggests, but does not prove, that superiority in learning results from the relationship of the peculiar qualities of the learner to the method and is not inherent in the method alone.—M. Mercer.
4336. Hebb, D. O. (McGill U., Toronto, Canada.) The effects of early experience on problem solving at maturity. *Amer. Psychologist*, 1947, 2, 306-307.—Abstract.
4337. James, W. T. (U. Georgia, Athens.) The use of work in developing a differential conditioned reaction of antagonistic reflex systems. *J. comp. physiol. Psychol.*, 1947, 40, 117-182.—This study reports an attempt to develop differential avoiding responses of the right and left leg of a dog. After the acquisition of right leg avoidance and the shift of shock and signal to conditioning of left leg withdrawal, the animal became confused, and did not develop successful withdrawal. By attaching a pedodynamograph to the right leg, so that a pull of 500 grams was required to lift the leg, a successful differential response was soon acquired. The writer attributes the change in performance to the added proprioceptive stimulation. When the weight on the right leg was removed the animal gradually lost the ability to make the differential responses. "This places emphasis on the proprioceptive system in channeling activity in the muscles of the body, and in forming differential responses of various parts of the body. The study seems to corroborate Pavlov's evidence that there are separate proprioceptive centers in the cortex."—L. I. O'Kelly.
4338. Kendler, Howard H. (U. Colorado, Boulder.) The effect of a various number of reinforcements in a T-maze upon spatial learning in the white rat. *Amer. Psychologist*, 1947, 2, 300-301.—Abstract.
4339. Kimble, G. A. (Brown U., Providence, R. I.) Reminiscence in motor learning as a function of the length of interpolated rest. *Amer. Psychologist*, 1947, 2, 312.—Abstract.
4340. Kogan, Leonard S. (U. Rochester, N. Y.) Similarity, goal gradient, and interference in maze learning. *Amer. Psychologist*, 1947, 2, 309.—Abstract.
4341. Lawrence, Douglas H. (Yale U., New Haven, Conn.) Transfer between discriminations involving the same cues but different responses. *Amer. Psychologist*, 1947, 2, 303-304.—Abstract.
4342. Leeper, Robert. (U. Oregon, Eugene.) The continuity, non-continuity issue in learning—an appraisal and a re-formulation. *Amer. Psychologist*, 1947, 2, 316.—Abstract.
4343. Miller, Neal E. (Yale U., New Haven, Conn.) Experiments on the strength of acquired drive based on hunger. *Amer. Psychologist*, 1947, 2, 303.—Abstract.
4344. Morsh, Joseph E., & Stannard, A. F. B. Studies in international Morse Code. II. A simplified method of determining code speed. *Canad. J. Psychol.*, 1947, 1, 67-70.—A method for computing code transmission speed is described, based on the assumption that a uniform length of dots and dashes is maintained, with the slowing required for beginners dependent upon longer inter-character and inter-word intervals. The type of text material is not considered in selecting the speed to be used (see 21: 3291).—F. W. Finger.
4345. Postman, Leo (Indiana U., Bloomington), & Egan, James P. Rate of recall as a measure of

retention. *Amer. Psychologist*, 1947, 2, 312-313.—Abstract.

4346. Prentice, W. C. H. (Johns Hopkins U., Baltimore, Md.) "Continuity" vs. "non-continuity" in human learning. *Amer. Psychologist*, 1947, 2, 316.—Abstract.

4347. Prentice, W. C. H. The effect of intent and interruption upon retroactive inhibition. In *Harvard University, Summaries of theses . . . 1942*. Cambridge, 1946. Pp. 361-363.—Abstract of Ph.D. thesis.

4348. Riesen, Austin H. (Yerkes Laboratories of Primate Biology, Orange Park, Fla.) Visual discriminations by chimpanzees after rearing in darkness. *Amer. Psychologist*, 1947, 2, 307.—Abstract.

4349. Sackett, Robert S. (Naval Research Lab., Washington, D.C.) The effect of knowledge of scores on learning a simulated tracking problem. *Amer. Psychologist*, 1947, 2, 299.—Abstract.

4350. Schiller, Paul H. (Columbia U., New York.) Detour experiments in rats. *Amer. Psychologist*, 1947, 2, 308.—Abstract.

4351. Solomon, Richard L. (Brown U., Providence, R. I.) The role of effort in the performance of a distance discrimination by albino rats. *Amer. Psychologist*, 1947, 2, 301.—Abstract.

4352. Snygg, Donald. (154 West 5th St., Oswego, N. Y.) Mazes run without error on the first trial. *Amer. Psychologist*, 1947, 2, 304.—Abstract.

4353. Taylor, Donald W. (Stanford U., Calif.) Spread of effect in one-trial learning in relation to the guessing-sequence hypothesis. *Amer. Psychologist*, 1947, 2, 313.—Abstract.

4354. Waters, R. H. (U. Arkansas, Fayetteville.) An experimental test of the dynamic character of expectancy. *Amer. Psychologist*, 1947, 2, 307-308.—Abstract.

4355. Webb, Wilse B. (U. Iowa, Iowa City.) The role of an irrelevant drive in response evocation in the white rat. *Amer. Psychologist*, 1947, 2, 303.—Abstract.

4356. Wickens, Delos D. (Ohio State U., Columbus.) The alteration at the initiating stimulus by the response as a learning mechanism. I. Its operation in instrumental finger conditioning. *Amer. Psychologist*, 1947, 2, 309.—Abstract.

THINKING AND IMAGINATION

4357. Baumgarten-Tramer, Franziska. (U. Berne, Switzerland.) Dusky thinking. *J. gen. Psychol.*, 1947, 36, 113-118.—The failure of many people who start out life under favorable circumstances, and with natural aptitudes, may be attributed to dusky thinking. In such thinking the "mind runs from one object to another, from one affair to another; one event after another fills the imagination." There is no planning thought, no "thematic thinking." The inclination to dusky thinking comes from a natural eidetic disposition. It is important to devise tests to detect such thinking in children, but

more important to develop mental exercises for use in the schools "to make the pupils think what possibilities and probabilities result from a certain situation."—C. F. Scofield.

4358. Coppock, Harold, & Mowrer, O. H. (Harvard U., Cambridge, Mass.) "Spontaneous" responses as rehearsal: a note on "overt thinking" in animals. *Amer. Psychologist*, 1947, 2, 279.—Abstract.

4359. Heidbreder, Edna. (Wellesley Coll., Wellesley, Mass.) The attainment of concepts: III. The process. *J. Psychol.*, 1947, 24, 93-138.—This paper presents data on the processes leading to the attainment of concepts by human adults. Three experiments were performed by 63, 20, and 16 college or university students. Each subject was studied individually. Of the 9 concepts attainable in each experiment 3 were concepts of concrete objects, 3 of spatial forms, and 3 of numbers. The hypothesis about which the discussion is centered is that the subjects reacted to something as thing-like as possible; that their preferred *capta* and *facta* were concrete objects, and that if such *capta* and *facta* were impossible or inadequate, they produced a succession of reactions to successively less thing-like aspects of the presented situations, departing as gradually as conditions allowed, from the kind of reaction involved in perceiving an object having full thing-like character. The data on the sequence of the reactions by which concepts were attained in these experiments are offered as supporting the above hypothesis, and as a basis for comparison with data from control experiments to be published subsequently which were performed to test the applicability of the hypothesis to concepts attained under other experimental conditions. 16 references. (See 21: 1425, 1426.)—M. Mercer.

4360. Meyerson, I., & Dambuyant, M. Un type de raisonnement de justification. (A type of defensive argument.) *J. Psychol. norm. path.*, 1946, 39, 387-404.—Self-vindication frequently takes the form of the "cauldron" argument cited by Freud, in which the defense consists in a series of statements which, if not wholly incompatible with one another, at best arise from totally different premises. "I returned your cauldron undamaged. It was broken when I borrowed it. I never borrowed it anyway." Such an argument involves contradiction, starting anew, and pluralism. It arises out of the difficulty of establishing an alleged fact as incontrovertible truth, and offers a degree of security to the defendant by attacking the question both from his own and from his accuser's point of view. It aims to prove the "absence of fault rather than the absence of fact," and in the hands of a skillful pleader frequently succeeds. Numerous illustrations are provided from court records and public addresses.—M. Sheehan.

4361. Sellars, Wilfrid. (U. Minnesota, Minneapolis.) Pure pragmatics and epistemology. *Phil. Sci.*, 1947, 14, 181-202.—Factualism and psychologism still predominate in the current treatment of some fundamental concepts, as "true," "designates,"

"verifiable," or "confirmable." "... I shall explore the possibility that the assignment of the above predicates to the expressions of an object calculus can be clarified by the recognition of a class of metalinguistic rules which figure in neither pure syntax, nor in pure semantics as at present conceived; rules which define a new dimension of calculus structure, a dimension which alone entitles them to be called *languages* in a genuinely epistemological sense of the term."—F. Heider.

4362. Wright, H. W. (U. Manitoba, Canada.) **The psychological centrality of communication.** *Canad. J. Psychol.*, 1947, 1, 92-95.—It is postulated that personal communication is the primary condition for personal growth and creative self-expression. Two relevant facts are noted. (1) Communication is more than a mode of social interaction between individuals by means of verbal symbols. Its significance arises because it is "an interchanging and a sharing of meaningful experiences." (2) Communication is not limited to ideas and opinions, but includes also feelings and desires, goals and methods of action. The traditional lack of attention to these items by the majority of social psychologists is discussed.—F. W. Finger.

INTELLIGENCE

4363. Bechtoldt, Harold P. (U. Iowa, Iowa City.) **Factorial investigation of the perceptual-speed factor.** *Amer. Psychologist*, 1947, 2, 304-305.—Abstract.

4364. Burt, Cyril. **Intelligence and fertility.** London: Hamish Hamilton, 1946. Pp. 43. [Abstracted review; original not seen.]—A survey of school-children in a London borough shows that the average I.Q. has decreased about 1.5 points during the past generation. It appears that not only are the smaller, well-to-do classes producing fewer children, but even among the larger working classes it is still the more intelligent families which contribute fewer children.—A. C. Hoffman.

4365. Cureton, Edward E. (Personnel Research Sect., AGO, Washington, D.C.) **The verbal relations factor and vocabulary.** *Amer. Psychologist*, 1947, 2, 286-287.—Abstract.

4366. Harris, Dai B. (U. Minnesota, Minneapolis.) **An item analysis and evaluation of the Merrill-Palmer scale of mental tests for preschool children.** *Amer. Psychologist*, 1947, 2, 302.—Abstract.

4367. Johnson, Donald M. (U. Illinois, Urbana.) **Applications of the standard-score IQ to social statistics.** *Amer. Psychologist*, 1947, 2, 266.—Abstract.

4368. Kuppasawny, B. (Maharaja's Coll., U. Mysore, India.) **Laws of heredity in relation to general mental ability.** *J. gen. Psychol.*, 1947, 36, 29-43.—The ability to learn a water maze is demonstrated to be distributed in a similar manner from generation to generation through 10 generations of white rats. Problems of the mode of transmission of general ability are discussed, and the conclusion drawn that general intelligence is not transmitted either as a

unit character depending on one gene or as a trait depending on a set of multiple genes. It is the product of the interaction of the genes brought together in a new combination, and since it depends upon recombination, the trait is not permanent. 16 references.—C. F. Scofield.

4369. Meili, Richard. **Die Faktorentheorie von Charles Edward Spearman (1863-1945).** (The factor theory of Charles Edward Spearman, 1863-1945.) *Schweiz. Z. Psychol. Anwend.*, 1947, 6, 137-140.—A historical summary of Spearman's contribution to the mathematical analysis of intellectual abilities.—K. F. Muenzinger.

4370. Pechoux, R., Kohler, M., & Girard, V. **Réflexions sur l'évaluation de l'intelligence chez les enfants irréguliers.** (Reflections on the evaluation of intelligence in abnormal children.) *J. Méd. Lyon*, 1947, 28, 337-342.—The intelligence of 100 abnormal and delinquent boys and girls between 5 and 18 years of age was tested by means of 3 tests: the Porteus, the Terman, and the Goodenough. Terman and Porteus M.A.'s correlated .27 in the girls and .22 in the boys; Porteus and Goodenough M.A.'s correlated .27 for the girls and .25 for the boys; Terman and Goodenough M.A.'s correlated .26 in the girls and .38 in the boys. These low correlations convince the authors that tests of "mental level" or of intelligence should be employed with circumspection, that the result of a single test is always dubious, that 2 or more intelligence tests should be used, that the conclusions obtained from the tests should ultimately be submitted to the sieve of experience and of clinical observation by a psychiatrist and pedagogue. Summary in Esperanto.—F. C. Sumner.

4371. Skodak, Marie (Personnel Counseling Service, Flint, Mich.), & Skeels, Harold M. **A follow-up study of the mental development of one hundred adopted children in Iowa.** *Amer. Psychologist*, 1947, 2, 278.—Abstract.

4372. Stone, Calvin P. (Stanford U., Calif.) **Losses and gains on the Alpha Group Examination as related to electroconvulsive shocks.** *J. comp. physiol. Psychol.*, 1947, 40, 183-189.—"In this study five forms of the Army Alpha Group Examination were given to 15 mental patients whose intellectual level and formal schooling were, on the average, above those of the general population. With but few exceptions one test was given: (1) one day after the first shock, (2) one day after the 9th or 10th shock, (3) one day after the 19th or 20th (last) shock, (4) one week after the last shock, (5) about 3 weeks after the last shock." The results indicated a significant decline in test scores from the beginning to the end of the course of shocks, with a significant rise during the time after the termination of shock treatment. It was not possible to evaluate the final scores in terms of pre-illness test level because of the lack of data for these patients covering that period. In some instances where such information was available, the pre-illness test level seemed to be regained within a month after the end of the convulsive therapy.—L. I. O'Kelly.

PERSONALITY

4373. Baumgarten, Franziska. *Der Benachteiligungskomplex*. (The injustice-complex.) *Gesundh. u. Wohlf.*, 1946, 26, 463-476.—Over against the inferiority-complex is the injustice-complex which also arises on the basis of an actually present mental or material deficiency. The injustice-complex can even arise out of an actual objective injustice. It represents a hypertrophy of the craving for recognition and appreciation, with slight capacity for performance, and is pronouncedly of a subjective nature. Comparing the two complexes, the author sees the question of right and wrong playing a great role in the injustice-complex, a fault-finding with oneself conspicuous in genuine inferiority-complex, a projection of the fault on others or outwards in the injustice-complex. The individual with inferiority-complex can be kind, but also asocial or antisocial while the individual with the injustice-complex is always asocial. Both are very ambitious. The psychotherapist in a case of injustice-complex must exhibit friendliness, a sympathy with social reform, and skill in dialectics.—F. C. Sumner.
4374. Bellak, Leopold (N. Y. Med. Coll.), Ekstein, Rudolph, & Braverman, Sydel. A preliminary study of norms for the Thematic Apperception Test. *Amer. Psychologist*, 1947, 2, 271.—Abstract.
4375. Cantril, Hadley. (Princeton U., N. J.) The place of personality in social psychology. *J. Psychol.*, 1947, 24, 19-56.—Much confusion in the study of personality results from failure to distinguish between the characteristic expression, abilities, or temperamental disposition of an individual and the direction taken by such characteristic behavior. Sociologists and ethnologists in emphasizing cultural influences may gloss over individual differences. Both psychologists and sociologists have failed to work out a precise account of how and why cultural influences, group attachments, or situational determinants affect the direction of behavior. Certain approaches to psychotherapy fail to take into sufficient account objective social conflicts as causes of personal conflicts. The frustration-aggression hypothesis must be considered an over-simplification. The role of the creative individual in affecting social change must be analyzed in any final adequate account of the place of personality in social psychology and is a problem for future study. 54-item bibliography.—M. Mercer.
4376. Cattell, Raymond B. (U. Illinois, Urbana.) Oblique, second order, and cooperative factors in personality analysis. *J. gen. Psychol.*, 1947, 36, 3-22.—A central problem in factor analysis is deciding which set of factors can be accepted as yielding the real functional unities. The discovery of true functional unities in the total personality requires (1) the use of a multifactor analysis of the centroid type, and (2) a mode of rotation after factorization which will permit each and every factor to have negative as well as positive loadings and some obliqueness between factors. An analysis of 35 personality traits on 208 male adults indicates that if obliqueness is permitted it represents the best possible solution. When the factor loadings of 2 factors in the same set of variables are appreciably correlated, without necessarily any correlation of the 2 factors *per se*, the factors may be described as *cooperative*, and this phenomenon must be kept in mind if rotations are to be wisely carried out. Oblique factors can be factor analyzed to yield second or higher order factors. Such a second order factorization is presented of 12 primary personality factors. The meaning of second order factors is discussed. 16 references.—C. F. Scofield.
4377. Eiserer, Paul E. (U. Chicago, Ill.) An exploratory investigation of the relative effectiveness of motion and still pictures for stimulating fantasies about intra family relationships. *Amer. Psychologist*, 1947, 2, 271.—Abstract.
4378. Gilinsky, Alberta S. (Tufts Coll., Medford, Mass.) The influence of the procedure of judging on the halo effect. *Amer. Psychologist*, 1947, 2, 309-310.—Abstract.
4379. Gray, H. (Stanford U. Sch. Med., San Francisco, Calif.) Jung's psychological types in relation to occupation, race, body-build. *Stanford med. Bull.*, 1946, 4, 100-103.—A questionnaire study of the occurrence of Jung's 2 psychological types (extroverts, introverts) and of his 4 functions (perceiving as sensation or as intuition; judging as thinking or as feeling) in members of various occupations, in members of various races and nations, and in persons of pyknic and schizaffin physiques. Introverts were in excess in most medical occupations, among artists and writers, among women physicians, but not among housewives. All groups tended toward sensation in perceiving and toward thinking in judgment. Jews show a slight but not statistically significant tendency to introversion, to intuition, and to thinking. Americans as a whole lean in a significant degree to being more extroverted, slightly to feeling, and without distinction to sensation versus intuition. Pyknic (obese) physiques tended distinctly to extroversion-sensation-feeling while schizaffin (lean) physiques tended to introversion-sensation-thinking. The study embraced 1000 cases in all.—F. C. Sumner.
4380. Hanfmann, Eugenia, Stein, Morris L., & Bruner, Jerome S. Personality factors in the temporal development of perceptual organization—a methodological note. *Amer. Psychologist*, 1947, 2, 284-285.—Abstract.
4381. Holt, Robert R. (Winter Vet. Admin. Hosp., Topeka, Kans.) The measurement of self-insight and some of its personological correlates. *Amer. Psychologist*, 1947, 2, 276-277.—Abstract.
4382. Humm, Doncaster, G., & Humm, Kathryn A. Compensations for subjects' response-bias in a measure of temperament. *Amer. Psychologist*, 1947, 2, 305-306.—Abstract.
4383. Irwin, James R. (U. Michigan, Ann Arbor.) Galen on the temperaments. *J. gen. Psy-*

chol., 1947, 36, 45-64.—The Galen system of temperaments is a modification of the doctrine of humors propounded by Hippocrates, which derived in turn from the ancient conception of the world as composed of the four basic elements of fire, water, air, and earth. A new chart of Galen's humoral doctrine is presented, and his influence on modern thought is discussed. 21 references.—C. F. Scofield.

4384. Kinder, Elaine F. (Rockland State Hosp., Orangeburg, N. Y.) Development of personality characteristics. *Amer. Psychologist*, 1947, 2, 267.—Abstract.

4385. Kopp, Helene. Die heutige psychologische Situation und ihre pädagogische Auswirkung. IV. Ursprung der Minderwertigkeitsgefühle. (The present day psychological situation and its pedagogical effect. IV. Origin of inferiority-feelings.) *Fachbl. schweis. Heime*, 1947, 18, 105.—The strivings of modern man for recognition, for self-maximation, for omnipotence are inevitably beset with checks and resultant inferiority-feelings. The author sees the way of salvation in humility. The humble man who believes in God does not suffer from inferiority-feeling. He does not have the need to measure himself jealously by others. He finds his happiness in being a faithful servant of God who requires of him only that he love his neighbor.—F. C. Sumner.

4386. Levinson, Daniel J. "Projective questions" in the study of personality and ideology. *Amer. Psychologist*, 1947, 2, 288.—Abstract.

4387. Licht, Marie. (Human Engineering Laboratory, 2012 Delancey Place, Philadelphia, Pa.) The measurement of one aspect of personality. *J. Psychol.*, 1947, 24, 83-87.—Recent research indicates that aptitudes when completely isolated will prove to exist as Mendelian inherited characters which occur in pairs so that each individual shows either the dominant or the recessive trait of every pair. A word association test of 100 words given to 1000 persons and scored by a method based on significant responses yielded a bimodal curve of the type to be expected if the test distinguished between individuals possessing the dominant or the recessive trait of a pair. Subsequent validation showed that executives, teachers, politicians, etc., scored high, while researchers in all fields, artists, musicians, engineers, and writers scored low. The names *objectivity* and *subjectivity* respectively were assigned to the two groups since the common element seemed to be contact work versus individual work. A check of the shape of the curve on 5 different populations of 1000 cases each proved the reproducibility of the curve. Two other investigations are being made to contribute evidence to indicate the presence or absence of a Mendelian character in this test.—M. Mercer.

4388. Markey, Stanley C. (Personnel Research Section, AGO, Washington, D.C.) Consistency of descriptive personality phrases in the forced choice technique. *Amer. Psychologist*, 1947, 2, 310-311.—Abstract.

4389. Mayman, Martin. (Winter Vet. Adm. Hosp., Topeka, Kans.) A comparative study of the Ror-

schach, Harrower, and Behn-Eschenberg Inkblot Tests. *Amer. Psychologist*, 1947, 2, 270-271.—Abstract.

4390. Morgenthaler, Walter. Rorschachmethode—Rorschachbewegung. (Rorschach method—Rorschach movement.) *Schweis. Z. Psychol. Anwend.*, 1943, 2, 117-120.—The 2 major dangers which accompany the increasing use of the Rorschach test come from people who oversimplify and falsify it and from those who make it more and more complex. Suggestions are given how to counteract these dangers.—K. F. Muenzinger.

4391. Potter, Elmer H., & Sarason, Seymour B. (Yale U., New Haven, Conn.) Color in the Rorschach and Kohs block designs. *Amer. Psychologist*, 1947, 2, 269-270.—Abstract.

4392. Roe, Anne. Personality and vocation. *Trans. N. Y. Acad. Sci.*, 1947, 9, 257-267.—In spite of the emotional significance of work, relatively few attempts have been made to relate personality patterns and vocational adjustment. Based upon Rorschach responses by a group of artists and a group of paleontologists, an hypothesis of vocational choice is presented in terms of "autonomous drives" (the need to master the environment) and "homonomous drives" (the urge to fit into superindividual categories). For example: "Men whose autonomous drives are strong but not markedly so, whose intellectual make-up tends to the relatively greater dominance of non-verbal ability, and whose homonomous drives seem to find satisfaction in empathy with ideas, with symbols of things rather than with the things themselves, are men who are well suited to the pursuit of science and likely to be attracted to it. In another group, where homonomous drives seem to be very much stronger, but in whom the major need is for empathy with the world outside, with things rather than with people or with people as a special sort of thing . . . we find the artists." 15 references.—F. W. Finger.

4393. Rotter, Julian B., & Wickens, Delos D. (Ohio State U., Columbus.) The consistency and generality of ratings of "social aggressiveness" made from observation of role playing situations. *Amer. Psychologist*, 1947, 2, 333.—Abstract.

4394. Stafford, John W. (Catholic U., Washington), Moore, Thomas V., & Hsü, En Hsi. The obverse analysis of personality. *Amer. Psychologist*, 1947, 2, 267-268.—Abstract.

4395. Stafford, John W., & Hsü, E. H. (Catholic U., Washington, D. C.) The super-factor of persons. *J. Psychol.*, 1947, 24, 63-70.—The presence or absence of 128 prepsychotic personality traits was studied in 56 college women by means of the intercorrelation of persons. Of the 9 factors isolated, the following are easily interpreted: cycloid or extrovert, schizoid or introvert, and suspicious or paranoid. From the intercorrelations of the 9 factors a super-factor was isolated, which is interpreted as a basic constitutional tendency that may be differentiated later in life into definite prepsychotic or psychotic tendencies. The task of mental hygiene is to pre-

vent differentiation of this super-factor into more definite unhealthy symptoms.—*M. Mercer.*

4396. Stewart, Naomi. Preferences for literary characters as indicators of personality characteristics. *Amer. Psychologist*, 1947, 2, 268-269.—Abstract.

4397. Symonds, Percival M. (Columbia U., New York.) Interpreting the picture-story (TAT) method. *Amer. Psychologist*, 1947, 2, 288-289.—Abstract.

4398. Wells, Frederick L. (Harvard U., Cambridge, Mass.) Inarticulate, without physical science motivations: case studies V and VI. *J. Psychol.*, 1947, 24, 149-159.—Case studies have been presented previously of 4 individuals who were distinguished for verbalistic tendencies, in relative contrast to motivations toward the quantitative and spatial areas. The present cases are selected from those rated at the opposite extreme from the standpoint of spoken language habits (trait assignment of Inarticulate) and who otherwise presented an assigned trait picture consistent with this attribute. That is, they must not have been assigned either of the traits with significantly negative association to Inarticulate or any rating positively associated with Verbal Facility. The trait assignments positively associated with Inarticulate are Bland Affect, Physical Science Motivations, and Pragmatic. This presentation concerns those to whom Physical Science Motivations are not assigned, but at least one of the other 2 is present. As before, the selection is without reference to psychometric data.—*M. Mercer.*

4399. White, Ralph K. (Central Intelligence Group, Washington, D. C.) Black boy: a value analysis. *Amer. Psychologist*, 1947, 2, 269.—Abstract.

4400. Wiener, Daniel N. Subtle and obvious keys for the Minnesota Multiphasic Personality Inventory. *Amer. Psychologist*, 1947, 2, 296.—Abstract.

4401. Zubin, Joseph, Levy, David M., & Rust, Ralph. (N. Y. Psychiatric Inst., New York.) Movement responses in normals, schizophrenics and neurotics on the Levy Movement Cards. *Amer. Psychologist*, 1947, 2, 269.—Abstract.

[See also abstracts 4201, 4206, 4209, 4212, 4213, 4246, 4294, 4301, 4303, 4318, 4426, 4435, 4439, 4450, 4501, 4638, 4658, 4661, 4667.]

DEVELOPMENTAL PSYCHOLOGY

4402. Rose, Dorian. (U. California, Berkeley.) Heart rate as a behavioral indicator in the fetal rat. *J. comp. physiol. Psychol.*, 1947, 40, 157-164.—In connection with observations of developmental schedules in rat fetuses from 9 to 17 mm. study was made of the heart rate before and during stimulation in the various test areas of the fetus. The experiment demonstrated that it was possible to use the heart as an indicator of sensitivity at stages of development prior to the emergence of fetal reflex movements. Acceleration of heart rate as a response to tactual stimulation followed a cephalo-caudad pro-

gression, and occurred in the head areas of 9.5 mm. fetuses. Since the accelerated response first appeared when the head region was stimulated and was shortly followed by acceleration when the fore-paw was stimulated, the writer concludes that the head and fore-arms develop together, and that "the mass of the head may be an important factor in the appearance of early reflexes when muscular movements are the bases for determining their presence or absence."—*L. I. O'Kelly.*

4403. Smith, Karl U. (U. Wisconsin, Madison), & Daniel, Robert S. Maturational development and integration of response in the sea turtle. *Amer. Psychologist*, 1947, 2, 266.—Abstract.

CHILDHOOD AND ADOLESCENCE

4404. Bakwin, Ruth Morris. (New York U., Med. Sch.) Feeding difficulties in early childhood. *Med. Clin. N. Amer.*, 1947, 31, 688-695.—Psychogenic factors in anorexia and feeding difficulties in early childhood are: (1) lack of understanding on part of parent that child needs less food in the second year; (2) rigid schedules; (3) unpalatability, monotony and lack of seasoning of the food; (4) poor training; (5) poor timing; (6) lack of understanding of the child's emerging self-dependence; (7) emotional maladjustments between parent and child: (a) overprotection, (b) revenge as result of rejection by parents, (c) revolt against overauthority. Treatment consists in (1) relieving of the tension in the home by assuring the parents that there is no need for anxiety; (2) adjustment of parent-child relationship; (3) lessening of the child's need to use the eating situation as a weapon to gain attention by giving the child adequate protection; (4) less rigid schedules with consideration for the child's likes and dislikes; (5) attractive service and varied and palatable food to stimulate child's appetite; (6) small helpings which are more pleasing than larger ones; (7) avoidance of bribing, threatening and distracting the child; (8) letting the child eat with other children or with family in order to eliminate some attention to the eating situation; (9) proper training in use of eating utensils and in self-feeding; (10) understanding on the part of parent for the child's need to develop in his own way.—*F. C. Sumner.*

4405. Bayley, Nancy. (Institute of Child Welfare, Berkeley, Calif.) The relation of age and test to consistency of mental growth from birth to eighteen years. *Amer. Psychologist*, 1947, 2, 314.—Abstract.

4406. Cherbeneau, Alice F. (U. Denver, Colo.) Bringing up the family semantically. *Etc. Rev. gen. Semant.*, 1947, 4, 95-105.—The possibilities of training a family semantically fascinated the author shortly after enrolling in a course in general semantics. She relates the problems she had encountered in rearing her two little girls, the mistakes she made, what she should have done had she had a knowledge of semantics and her new approach with some semantic background.—*G. I. Corona.*

4407. Easterman, Benjamin. (Manhattan Eye, Ear and Throat Hosp., New York.) Some common

ophthalmologic problems in pediatrics. *Med. Clin. N. Amer.*, 1947, 31, 750-763.—The symptoms of and remedial measures for the common eye disorders found in children are described. The discussion of strabismus includes half of the entire article.—F. C. Sumner.

4408. Gesell, Arnold L. (Yale U., New Haven, Conn.) Developmental diagnosis of infant and child; its role in clinical medicine. *Post Grad. med. J.*, 1947, 1, 29-35.—The method employed at the Clinic of Child Development at the School of Medicine of Yale University for diagnosing behavior development of the infant and child is described. The use of this scale of developmental norms is pictorially represented. 20 minutes usually suffice for a developmental examination of an infant which accomplishes 4 results: (1) it ascertains stages and degrees of maturity; (2) it analyzes the total behavior picture into components and makes possible differential diagnoses of normality, defect, and deviation; (3) it reveals neurologic defects and sensory handicaps, not disclosed by ordinary methods of clinical examination; (4) it supplies important objective information concerning the integration of behavior and the organization of personality.—F. C. Sumner.

4409. Hartmann, George W. (Columbia U., New York.) Studies in the development of democratic concepts and behavior. *Amer. Psychologist*, 1947, 2, 336.—Abstract.

4410. Irwin, Orvis C. (U. Iowa, Iowa City.) The mastery of vowel and consonant sounds during the period of infancy. *Amer. Psychologist*, 1947, 2, 314.—Abstract.

4411. Jones, Harold E. (U. California, Berkeley.) The relationship of strength to physique. *Amer. J. phys. Anthropol.*, 1947, 5, 29-40.—80 boys from public schools of Oakland, California, were studied with respect to the relation of strength (right grip, left grip, pulling strength, thrusting strength) to physique at the end of adolescence (approximately 17.5 years) when growth changes even in the late maturing are of very reduced magnitude. Pearson r for total strength with height was $.33 \pm .07$ and for total strength with weight, $.52 \pm .055$. Strength is thus found more related to weight than to height. Classifying the boys according to the Sheldon-Stevens-Tucker physique typology into endomorphs, mesomorphs, and ectomorphs, the author found that strength was related to the mesomorphic component in body build.—F. C. Sumner.

4412. Jones, Harold E. (U. Calif., Berkeley.) Skeletal maturing as related to strength. *Child Developm.*, 1946, 17, 173-185.—Average growth curves, from age 11 to 17.5 years, are presented for 4 aspects of static dynamometric strength. "Average curves, for boys, were approximately linear from 11 to 13 years, with an inflection to a more rapid rate of growth after 13." Relationships between growth in strength and growth in other areas are also discussed.—L. Long.

4413. Lacey, John I. (Fels Research Institute, Yellow Springs, O.) Sex differences in somatic reactions to stress. *Amer. Psychologist*, 1947, 2, 343.—Abstract.

4414. Lamb, Mina Wolf, & Ling, Bing-Chung. (Texas Technological Coll., Lubbock.) An analysis of food consumption and preferences of nursery school children. *Child Developm.*, 1946, 17, 187-217.—The food consumption and preferences of 8 children, ranging in age from 2 to 3.5 years, were studied for 1 year. The authors conclude that the nutrient intake of a child may be generally adequate, but his consumption of certain food groups can still fall short of the recommended amounts. Furthermore they believe that the inadequacy in the amounts and kinds of food consumed can frequently be traced to faulty meal planning on the part of the adult rather than to a lack of positive liking of the child for these foods.—L. Long.

4415. Lambert, Clara. (Play Schools Ass'n, 119 West 57th St., New York, 19.) Play: a child's way of growing up. New York, Play Schools Association, 1947. Pp. 36. 30c.—In this pamphlet a chart is presented which lists children's play interests from 5 to 12. Topical outlines supplemented by photographs are presented as guides to play programs for the 5 to 8 and 9 to 12 year groups, satisfying the children's emotional needs at each age level. Data for the program were gathered from moving pictures of children at play in city streets, in parks, and back yards; from records and observations made of children in play schools; and from studies made of individual children.—M. Mercer.

4416. Laycock, Samuel Ralph. (U. Saskatchewan, Saskatoon.) Cheating your children. Toronto: Ryerson Press, 1947. Pp. 52. 50c.—Primarily written to assist parents in understanding what happens to children when they are deprived of such basic psychological needs as love, success, approval, and self-esteem. Discussion questions are provided at the end of the booklet.—A. S. Artley.

4417. Laycock, Samuel Ralph. (U. Saskatchewan, Saskatoon.) Emotional climate in the home. Toronto: Ryerson Press, 1947. Pp. 47. 50c.—In a popular style the author discusses ways of improving the relationship between parent and child. Typical chapters deal with the domineering parent, the possessive parent, the nagging parent, and the coddling parent. Questions suitable for discussion are provided.—A. S. Artley.

4418. Lewinsky, Harry L. Der Fertigkeitkomplex. (The maturity-complex.) *Fachbl. schweiz. Heime*, 1946, 17, 161-163.—Characterized as a maturity-complex or better still as a maturity-psychosis is the delusion of adolescent refugees that they are able to grasp the know-how of a vocation, etc., in an exceedingly short time, or else that their teacher or his method is inefficient. This complex springs (1) from the uprooted life of emigrant youth which makes for non-appreciation of the traditional need for solid foundations; (2) from a desire at 18, 19 or even 22 to retrieve in 3 or 4 months of vocational

training the 3 or 4 years idled away in travel and migration; (3) from the recent ascendancy of the political over every other domain of life and the resultant confusion and falsification of concepts and values for youth in general. This complex is not just peculiar to refugee children. It is also observed in all war-affected youth. The remedy involves the quickest possible and most frictionless normalizing of the life of these youth. On the other hand the school must give up much that is alien to the real world, must make over its courses in such wise that they deal with serious real life problems.—F. C. Sumner.

4419. Möschlin, Eugénie. Pubertät und Schwere-ziehbarkeit. (Puberty and training-difficulty.) *Gesundh. u. Wohlf.*, 1945, 25, 208-216.—Adolescents who give difficulty in training have been as children either pleasure-rich or pleasure-poor. Pleasure-rich children are those whose every wish is indulged and come mostly from a milieu with feminine accent. These spoiled children begin to give trouble even in elementary school. Pleasure-poor children, on the other hand, are those whose normal desires are denied gratification by a milieu austere moral or lacking in sympathy and understanding for children. These pleasure-starved children may come at times from wealthy families. Subsequently as adolescents they may become rebellious or else grow up extremely dependent, timid, fearful of living. Between over-indulgence of the Id and an excessive restraint on the part of the Super-ego is a pedagogical golden mean which is at the same time realistic in that it would harmonize the natural wishes of the child with law and order.—F. C. Sumner.

4420. Richard, G. L'enfant et la guerre. Que faire de l'instinct d'agression. (The child and war. What to do about the instinct of aggression.) *Gesundh. u. wohlf.*, 1946, 26, 577-599.—Three ways of solving the problem of aggressivity in children are indicated: (1) leaving to the child the moral liberty of entering into competition with his comrades and of doing better than they, but limiting the natural and egoistic need by making him discover that his comrades have the same need and that it is also normal that they struggle with or against him; (2) giving the child occasion to discover the joy of collaborating, the pleasure of working in groups at a task which interests all; (3) utilizing the aggressivity of the child at school by bringing him to compare himself with himself and to aim at surpassing himself. Psychological means of eliminating war are seen not in suppressing the children's war games but in (1) reasoning sanely on war before the children; (2) being fully conscious and master of our own aggressive tendencies in our personal, family and social life; (3) working towards rendering our children independent of the mass, towards making persons of them who know how to maintain their freedom of thought in relation to general opinion.—F. C. Sumner.

4421. Rosales, Fernando M. Nuevo índice de equilibrio morfológico e investigaciones biométricas

en escolares mexicanos. (New indices of morphological balance from biometric investigations on Mexican pupils.) *Rev. Inst. nac. Pedag., Méx.*, 1947, 1, 3-28.—A summary of a detailed study concerned with the rates of development of various physical measurements. When the ratio of physical development to age is considered it is a much simpler matter to judge the status of a child in relation to the group. Tables are presented for male and female subjects, male, ages 6-16; female, 7-13 showing standards for height, weight, thoracic expansion, pulse rate, reclining pulse rate, standing breathing rate, reclining breathing rate, standing pulse rate after exercise, breathing rate after exercise, arterial tension, and lung capacity.—E. R. Oswalt.

4422. Sears, Robert R., Pintler, Margaret H., & Sears, Pauline S. (U. Iowa, Iowa City.) Effect of father separation on preschool children's doll play aggression. *Child Developm.*, 1946, 17, 219-243.—Two twenty-minute projective doll play sessions were secured from 126 children (66 boys and 60 girls), ranging in age from 3 to 5 years. Half of the children were from homes in which the father was present and half were from homes in which the father was absent. Descriptions of all doll play aggressions were recorded. It was found that boys from father-absent homes portrayed much less aggression than boys from father-present homes. The difference was not reliable for girls and was in the opposite direction. Only in the father-present groups was there an increase in the frequency of aggression from the first to the second session. The boys exhibited more aggression toward the fathers than toward the mothers and more toward the former when they were at home than when away from home. More self-aggression by the boys was observed among the father-present group than among the father-absent group. The implications of the results are discussed.—L. Long.

4423. Seidenfeld, Morton A. (National Foundation for Infantile Paralysis, New York.) Behavior of post-polio school children on the California Test of Personality. *Amer. Psychologist*, 1947, 2, 274.—Abstract.

4424. Springthorpe, Guy. Some aspects of child development and mental health. *Med. J. Aust.*, 1947, 1, 689-693.—A reasonable measure of satisfaction to the instinctive-emotional needs of the child for food, security, self-expression and love is seen as the best early treatment of insanity.—F. C. Sumner.

4425. Templin, Mildred C. (U. Minnesota, Minneapolis.) Explanation of causes of natural phenomena by children with normal and defective hearing. *Amer. Psychologist*, 1947, 2, 278-279.—Abstract.

4426. Thiesen, J. Warren, & Meister, Ralph K. (Mooseheart, Ill.) A laboratory investigation of measures of frustration tolerance of pre-adolescent children: a preliminary report. *Amer. Psychologist*, 1947, 2, 285.—Abstract.

4427. Watts, A. F. *The language and mental development of children; an essay in educational psychology*. Boston: Heath, 1947. Pp. 354. \$3.25.—The influence of language on the mental development of children is discussed by reference to previously published research and on the basis of data collected by the author. The following areas of language development are considered: vocabulary growth, continuous speech, reading and writing, pre-verbal language development, language and feeling, metaphor and analogy, and the child's understanding of personality and character. The general methods and objectives of educational research are outlined in Appendix I. Appendix II includes various vocabulary, sentence and reading scales constructed by the author. The author states that the conclusions reached in this treatise should be of particular interest to parents and teachers. Bibliography of 142 entries.—G. G. Thompson.

MATURITY AND OLD AGE

4428. deGruchy, Clare. (*Old Age Counselling Center, San Francisco, Calif.*) *Counselling the aged. Geriatrics*, 1947, 2, 183-187.—The author discusses briefly the procedures followed in the San Francisco Old Age Counseling Center. Each client typically has 5 one-hour consultations spaced one week apart. The first interview is for the purpose of studying the client, his background, his present status and problems. The second visit deals mainly with his daily use of time, the third with his income and its distribution, the fourth with goals and purposes, and the fifth is devoted to consideration of the client's future participation in community life.—R. G. Kuhlen.

4429. Gittelson, M. *Emotional problems of elderly people. Proc. Inst. Med., Chicago*, 1947, 16, 416.—Abstract.

[See also abstracts 4237, 4269, 4288, 4336, 4371, 4377, 4443, 4444, 4447, 4451, 4470, 4499, 4502, 4570, 4574, 4656.]

BEHAVIOR DEVIATIONS

(incl. Abnormal Psychology)

4430. Bergler, Edmund. (*251 Central Park West, New York 24.*) *Problems of suicide. Psychiat. Quart. Suppl.*, 1946, 20, 261-275.—Suicidal types are subdivided into three categories: the introjection type, the hysteric type, and a miscellaneous group. "The suicide of the introjection type is a person laboring under the deepest feeling of guilt because of his over-dimensional psychic masochism. To counteract this reproach, pseudo-aggression is mobilized—the fantasy of killing the disapprover. The disappointment is always self-provoked, by choice of, and attachment to, the disappointing person. The feeling of guilt is shifted from the masochistic act to a pseudo-aggressive one." The most important group is the hysteric, whose suicide is based on a "negative magic gesture," denoting an unconscious dramatization of how one does not want to be

treated. Cases are cited to illustrate these types, and the opinions of other writers on the incidence of suicide in normals, psychoneurotics, and psychotics are given.—W. E. Arius.

4431. Burstin, J. *Le symbole en psychiatrie. II. Le symbole en psychopathologie.* (The symbol in psychiatry. II. The symbol in psychopathology.) *Ann. méd.-psychol.*, 1946, 104, 97-139.—In the first part of this study (see 21: 63) the similarities between symbols in normal psychology and in psychopathology were pointed out. The present study distinguishes the pathological symbol from the normal symbol. The differences are in the nature of the content. Pathological symbolism appears to differ from normal symbolism in the pseudo-incoherence of the content-organization, in the bizarreness of the content, in the intelligibility of the language (neologisms), and in the decided exteriorization of the content. This content of pathological symbolism reflects the history of the subject, the history of his affectivity, his degree of culture, and his imaginative faculties.—F. C. Sumner.

4432. Burton, Arthur. (*U. Idaho, Moscow.*) *The use of the masculinity-femininity scale of the Minnesota Multiphasic Personality Inventory as an aid in the diagnosis of sexual inversion. J. Psychol.*, 1947, 24, 161-164.—The MF scale of the Minnesota Multiphasic Personality Inventory was administered to 20 rapists, 34 sexual inverts, and 84 other delinquents to determine whether the scale would discriminate between groups whose sexual orientation varied from hetero- to homosexuality. Significant differences were found between inverts and rapists, and also between inverts and delinquents normal sexually. The reliability coefficient, however, based on the retest of 34 cases was $.70 \pm .09$. It was concluded that the reliability of the MF scale is too low for individual clinical use.—M. Mercer.

4433. Hincks, Clarence M. *The future of Canadian psychiatry. Canad. med. Ass. J.*, 1947, 57, 161-165.—A number of worthwhile future objectives of Canadian psychiatry are discussed, namely: the improvement of the quality of Canadian psychiatry, the strengthening of undergraduate psychiatric training in medical schools, the extension and improvement of mental health clinics, the further development of psychiatric departments in general hospitals, the provision of mental hygiene training for public health personnel, teachers, and social workers, improvement of mental hospitals.—F. C. Sumner.

4434. Hoagland, Hudson. (*Tufts Coll., Med. Sch., Medford, Mass.*) *Enzyme kinetics and the dynamics of behavior. J. comp. physiol. Psychol.*, 1947, 40, 107-127.—This article is a review of some of the possible chemical factors concerned in abnormal behavior. The writer proceeds from the basic biological assumption that "mental disease as a form of behavior must ultimately be comprehensible in terms of its concomitant molecular physiology." After a brief discussion of the role of enzymes in neuronal activity several lines of chemical evidence are presented. It is suggested that the lower basal meta-

bolic rate of schizophrenics may be a consequence of deranged intermediate tissue metabolism, which in turn influences the normal reactions of brain enzymes. The part of the brain most likely to be involved in these molecular derangements of function is thought to be the hypothalamus, and the evidence for this is cited. Finally, the hypothesis is advanced that psychoses are deficiency diseases in which there is a strong possibility that the deficiency is enzymic in type and may have a genetic basis. 42 references.—*L. I. O'Kelly.*

4435. Jørgensen, Jørgen. Some preliminary remarks concerning the concept of personality types. *Acta psychiat., Kbh.*, 1946, 21, 409-415.—The various significances of the "type" concept are described and it is pointed out there would be less confusion regarding "types" in psychology and psychiatry if intuitive descriptions of personality "types" were replaced by descriptions of syndromes of personality features.—*A. L. Benton.*

4436. Koller, A. Über das Phänomen der Alkoholgewöhnung. (On the phenomenon of alcohol-habitation.) *Gesundh. u. Wohlf.*, 1945, 25, 234-239.—Recent studies of the mental and physical effects of habituation to alcohol are reviewed and the following conclusions are drawn: (1) the phenomenon of habituation to alcohol with its apparent improvement of performance is in no case to be attributed to a heightened vitality of the nerve cells; (2) there is rather a dulling of their normal sensitivity which presumably goes in parallel with a dulling of sensitivity to finer intellectual and affective stimuli—the essential symptoms of chronic alcoholism.—*F. C. Sumner.*

4437. Lapan, Arthur. (Brooklyn Coll., Brooklyn, N. Y.) Incompatibilities and conflicts; breakdown. *Phil. Sci.*, 1947, 14, 261-265.—A quasi-formal method, in which definitions, statements, and consequences are listed, is used to define the conditions under which breakdowns occur. "... every situation which is (a) coercive, (b) possesses exhaustive alternatives which (c) are incompatible and which (d) mutually inhibit one another, produces breakdown."—*F. Heider.*

4438. Marshall, Helen. A study of the personality of alcoholic males. *Amer. Psychologist*, 1947, 2, 289.—Abstract.

4439. Rees, Linford. The physical constitution and mental illness. *Eugen. Rev.*, 1947, 39, 50-55.—Several studies are reviewed indicating a recent revival of interest in the relationship between body-build and temperament. Earlier work was handicapped by inadequacies of measurement and statistical treatment. However, the method of factorial analysis has recently isolated a general factor determining general body size, and a second, bipolar factor having positive saturations with length measurements and negative saturations with breadth, depth, and circumferential measurements. Factorial analysis on anthropometric measurements of 200 service women also revealed a size factor and a type factor. No evidence was found for the existence of

discrete and independent types but rather of continuous gradation. Findings suggested that factors were of genotypical as well as phenotypical significance. Certain complex relationships were found to exist between physical constitution and neuroses and psychoses. Physical constitution seems to influence the development, form, and course of the illness. 29 references.—*G. C. Schwesinger.*

4440. Richet, Charles. Troubles neuro-psychiatiques observés à Buchenwald. (Neuro-psychiatric disorders observed at Buchenwald.) *Progr. méd., Paris*, 1946, 74, 355-356.—This study limits itself to the following 4 groups of nervous disorders among prisoners at Buchenwald: (1) resulting from transportation (thirst in summer, cold in winter, fatigue); (2) contracted in the course of infectious maladies; (3) provoked by alimentary restrictions; (4) psychological reactions to imprisonment at Buchenwald among which 3 types are portrayed: (a) the *bad prisoner* who did not know how to adapt himself to imprisonment and mistreatment, who resorted to brutality and defiance, and who ended with a psychic burrowing or else in being the victim of others, usually dying within a few weeks; (b) the *perfect prisoner* who hardens his character, negates his will, abandons all sentimentality, adapts himself to the otherwise most revolting servitude to the demands of the prison regime; (c) the *average prisoner* met with most frequently, who only by slow degrees becomes depressed, loses his character, neglects his body care, no longer makes an effort. This average prisoner eventually loses all critical sense, thinking no longer even of his liberation, having no other thought than that of alimentation. It is true that a few prisoners escape this psychic depression, share their things, revive the spirits of their comrades, strive at every moment. Such vigorous and resistant souls permit one not to despair of humanity.—*F. C. Sumner.*

4441. Rosenwald, Alan K. (Illinois Neuropsychiatric Inst., Chicago.) A comparison of the Rorschach and Behn Rorschach tests based on a study of chronic alcoholic subjects. *Amer. Psychologist*, 1947, 2, 270.—Abstract.

4442. Stafford, B. F. R. An essay on medical psychology. *Univ. Queensland misc. Publ.*, 1944, No. 8, 79-119.—This 5 part essay reviews the fundamentals of elementary psychiatry and abnormal psychology. It presents mainly a superstructure around which a student following the prescribed program of reading contained in the references and notes in its concluding pages may familiarize himself with classification, etiology, and treatment of the more common mental diseases.—*M. A. Seidenfeld.*

4443. Strecker, Edward A. The seeds of immaturity. *Penn. med. J.*, 1947, 50, 377-383.—Experiences of the author in World War II convince him that emotional immaturity is at the bottom of the startling number of young Americans rejected at induction for neuropsychiatric reasons (40% of total rejections), of the several hundred thousands discharged as "psychoneurotic," and of the one-half

million "draft dodgers." These young men were emotionally immature because their mothers had failed in providing opportunity for the child's emotional emancipation. Distinguishing between a mother and a "mom," the author uses the term "mom" for the woman who unconsciously but selfishly hangs on to her offspring and refuses her sons and daughters emotional emancipation. To eliminate psychoneurosis on a grand scale "momism" must be eradicated from the American pattern of life.—F. C. Sumner.

MENTAL DEFICIENCY

4444. Gesell, Arnold L. (Yale U., New Haven, Conn.) Differential diagnosis of mental deficiency in infancy. *Neb. St. med. J.*, 1947, 32, 304-307.—A baby's intelligence may be diagnosed with accuracy often at birth and usually at age of 16 or 20 weeks by means of physical stigmata, behavior examination, or developmental examination of behavior which uses a standard technique and appraises the severity of the retardation. The infant who seems to develop normally until about the third month and then starts to become listless, to have convulsions, and to deteriorate in general may be a case of cerebral degeneration. The statement that the behavior pattern of the child is fixed at 2 years is not absolutely but only relatively true. The probable cause of mongolism is not yet settled. Severe chronic illness or repeated severe acute illnesses during the first year or 2 of life may have some permanent mental effects.—F. C. Sumner.

4445. Uranga Imaz, Francisco, Dubrovsky, Ricardo, & Albanese, Pascual. La hidrocefalia en el Instituto de Maternidad. (Hydrocephaly in the Institute of Maternity.) *Prensa méd. argent.*, 1946, 33, 2038-2041.—In the first 100,000 maternity cases at the Institute hydrocephaly was involved in 21 cases, i.e., .021% or one in 4761 maternity cases. Of the 21 cases 9 were first births, 7 were second births, 3 were third births, and 2 were the last of many births. In only one case was there a previous hydrocephalic child. The pregnancy arrived at full term in 90% of the cases. Head presentation was observed 16 times, pelvic presentation 3 times, shoulder presentation 2 times. In the majority of the cases serological reaction, hereditary, and personal antecedents excluded syphilis as responsible. Only one case was observed with positive serological reactions. Hydrocephaly appears to result from a disturbance in the excretion or in the reabsorption of the cerebrospinal fluid.—F. C. Sumner.

PSYCHOSES

4446. Deri, Susan K. (City Coll., New York.) The effect of electric shock treatment on depressive patients. *Amer. Psychologist*, 1947, 2, 286.—Abstract.

4447. Despert, J. Louise. (Cornell U. Med. Coll., New York.) The early recognition of childhood schizophrenia. *Med. Clin. N. Amer.*, 1947, 31, 680-

687.—The acute onset of schizophrenia in childhood is readily recognized. In a previously well or relatively well-adjusted child with no indication of organic illness, there suddenly appear motor, sensory, sleep, speech, mental or other symptoms. The total picture is one of acute anxiety which does not yield to sedative and ordinary means of reassurance. He is out of contact and does not respond to the spoken word and entreaties of persons closest to him. On the other hand, diagnosis of the insidious onset of schizophrenia in childhood is most difficult. Early emotional detachment, lack of social relationship to people, excessive but unemotional dependence on the mother or mother substitute, bizarre behavior which may or may not include temper tantrums, speech and language anomalies, particularly neologisms and interest in word forms detached from emotional and intellectual content are here the symptoms. The schizophrenic child gives the impression of being intelligent and actually proves to be so on intelligence tests.—F. C. Sumner.

4448. Dubin, S. S., & Thaler, M. The use of psychological tests on schizophrenic patients before and after shock treatment. *Amer. Psychologist*, 1947, 2, 283.—Abstract.

4449. Faergeman, Paul. Early differential diagnosis between psychogenic psychosis and schizophrenia. *Acta psychiat., Kbh.*, 1946, 21, 275-279.—5 statistically significant factors are listed as pointing to a psychogenic psychosis as contrasted with a true schizophrenia: (1) severe psychic trauma initiating the psychosis; (2) adequate affective reaction; (3) absence of hallucinations; (4) duration of disease under 3 months; (5) absence of delusions. These factors are assigned different weights in accordance with their discriminative value and combined into a single score which indicates the probability of the disorder being a psychogenic psychosis or a schizophrenia.—A. L. Benton.

4450. Rabin, Albert I. (105 Pleasant St., Concord, N. H.) Effects of electric shock treatment upon some aspects of personality and intellect. *Amer. Psychologist*, 1947, 2, 284.—Abstract.

4451. Rothschild, David. (Harvard Med. Sch., Cambridge, Mass.) The clinical differentiation of senile and arteriosclerotic psychoses. *Geriatrics*, 1947, 2, 155-164.—Senile psychoses tend to begin later than arteriosclerotic psychoses, are more gradual in onset, last longer, and lead progressively to mental deterioration. Arteriosclerosis may begin gradually or abruptly. The acute onset is marked by a confused or delirious state, with or without neurologic accompaniments. In a gradual onset the picture is similar to senile dementia, both disorders presenting signs of intellectual failing, frequently with disturbed behavior. In arteriosclerotic psychoses attacks of confusion may occur at any point thereby producing a more stormy course with fluctuations in the severity of the mental disturbances. Intellectual impairment is usually more pronounced in senile than in arteriosclerotic conditions, except in the paranoid type of senile psychoses where intel-

lect may be relatively well preserved. Paranoid syndromes are seldom noted in arteriosclerotic disorders. Hypochondriacal symptoms often appear early in the arteriosclerotic but ordinarily are not prominent in senile psychoses. Arteriosclerotic psychoses are often characterized by gross neurological changes, by cardiac disturbances, and (less frequently) by such symptoms as headache, dizziness, and syncopal attacks. Sclerosis of the peripheral arteries and hypertension occur with equal frequency in the two psychoses.—R. G. Kuhlen.

4452. Shakow, D. The nature of deterioration in schizophrenic conditions. In *Harvard University, Summaries of theses . . . 1942*. Cambridge, 1946. Pp. 363-367.—Abstract of Ph.D. thesis.

4453. Simon, Benjamin. (Connecticut State Hosp., Middletown.) Comparison of the initial psychotic manifestations of veterans and civilians. *Psychiat. Quart. Suppl.*, 1946, 20, 245-252.—An analysis of the differences between the psychotic soldier and the psychotic civilian reveals, first of all, the presence of one group showing no material difference in the initial onset and manifestations of psychosis from comparable civilians. A second group, more peculiar to the Army, is the group in which are seen the psychoses specifically related to the fact that the individual is in the military service and faces danger in actuality and in anticipation; the expression of these psychoses is usually explosive. A characteristic type of expression of this group is a deep sense of guilt after the individual has recovered from his first state of panic and confusion. The fact that the soldier's psychosis arises in a healthy, young, pre-selected individual and develops in the face of stresses which require rapid adaptation makes for a better prognosis than in the case of the civilian psychosis.—W. E. Artus.

4454. Wittman, Phyllis. (Elgin State Hosp., Elgin, Ill.) Diagnostic and prognostic significance of prodromal factors in schizophrenic psychoses. *Amer. Psychologist*, 1947, 2, 283-284.—Abstract.

PSYCHONEUROSES

4455. Adamson, Gilbert L. Clinical depressions. *Canad. med. Ass. J.*, 1947, 57, 1-4.—Depressions are met quite as frequently in general medicine as in psychiatry. The depressions observed by physicians are, however, early or incompletely developed depressive illnesses. Scarcely ever does the depressed patient come to the physician complaining spontaneously of feeling despondent or melancholy. Somatic and mental symptoms are complained. The patient almost always interprets his symptoms as indicative of physical disease. While physical disease may precipitate a depression, it is dangerous to leave out of account the emotional state of the patient. The most common form of depression is seen in females during the involutional period.—F. C. Sumner.

4456. Alvarez, Walter C. (Mayo Clinic, Rochester, Minn.) What is the matter with the person

who is always tired? *Northw. Med.*, Seattle, 1947, 46, 437-443.—Of the causes of chronic feelings of fatigue the commonest is nervous breakdown either from overwork or from constitutional inadequacy. Other causes are fretting, fussing and worrying; bad habits (excessive smoking or overindulgence in alcohol); migrainous constitution and temperament; small, ordinarily unrecognized cerebral hemorrhages.—F. C. Sumner.

4457. Bijou, Sidney W. (Indiana U., Bloomington.) A new conditioned response technique to investigate "experimental neurosis" in the rat. *Amer. Psychologist*, 1947, 2, 319.—Abstract.

4458. Billings, R. M., Chalke, F. C. R., & Shortt, L. Battle exhaustion—a follow-up study. *Canad. med. Ass. J.*, 1947, 57, 152-155.—55 soldiers who had suffered battle exhaustion and who were neither mild cases nor psychotic were interviewed at time of discharge from the hospital and followed up for 6 months. No relationship was found between the clinical state 6 months after discharge and the type of breakdown (anxiety, psychosomatic, hysterical), the treatment, the type of reemployment or estimates of previous stability. Present sources of anxiety in the environment apparently contribute to the lack of improvement.—F. C. Sumner.

4459. Brillinger, H. R. A working concept of the psychoneuroses. *Canad. med. Ass. J.*, 1947, 57, 142-147.—Inhibition of emotions, excessive fatigue and frustration are seen as major causes of the psychoneuroses. The author classifies the psychoneuroses as follows: hysteria, psychasthenia, neurasthenia, hypochondriasis, reactive depression, anxiety-states, mixed psychoneuroses. A brief description of each type is given. Treatments are catharsis, giving the patient confidence, reassuring explanation, daily program, teaching relaxation, and sub-shock insulin.—F. C. Sumner.

4460. Duval, Addison M. (St. Elizabeths Hospital, Washington, D. C.) The psychoneuroses. *Virginia med. Mon.*, 1947, 74, 351-354.—This is a brief summary of what the general practitioner should know about the psychoneuroses. Emphasis has been placed on eliminating misconceptions about mental illness, the promotion of the physician's interest in and tolerance for the psychoneurotic patient, a clarification of the concept of personality function, the classification of the various psychoneurotic reactions and their treatment. Since most psychoneurotic patients will not come to psychiatrists, but to general practitioners, it is necessary that the general practitioner be provided with knowledge of how to diagnose and to manage this kind of patient.—F. C. Sumner.

4461. Ebaugh, Franklin G. Present-day concepts of the psychoneuroses. *Penn. med. J.*, 1947, 50, 361-369.—Anxiety or lack of ease is seen as the essential feature of all disease, particularly the psychoneuroses. Methods of treating the psychoneurotic which have fallen into disrepute are: (1) warning and forbidding; (2) exhortation; (3) suggestion, over-reliance, and encouragement; (4) advice

and persuasion. The six steps in positive modern psychiatric treatment of psychoneurotic cases are: (1) rapport between patient and psychiatrist; (2) examination, physiologic and psychiatric of both patient and his environment; (3) understanding; (4) aeration or catharsis; (5) desensitization or bringing patient to a more objective point of view with respect to his illness; (6) reeducation and orientation. The author points out the need for the general practitioner to have a general knowledge of how to deal with the psychoneurotic patient.—*F. C. Sumner.*

4462. Evans, Clifford, & Hewspear, David. A case of respiratory incoordination. *J. Laryng.*, 1946, 61, 312-313.—Medicinal and surgical treatment failed to improve a unique case of mouth-breathing. A check of the social history revealed the patient, a British soldier, had been reared by professional foster parents and neurosis was suspected. Under deep anaesthesia nasal breathing occurred freely but upon returning to light anaesthesia the "nasal obstruction" returned; this was found to be a sphincter-like spasmodic obstruction in the region of the glottis. Some form of muscular incoordination due to a long-standing psychological maladjustment seemed to be the explanation and remedial breathing exercises were prescribed, resulting in marked improvement.—*M. H. Groves.*

4463. Jensen, Milton B., & Kende, T. Norbert. A case of sadism expressed through pictorial mutilations. *Amer. Psychologist*, 1947, 2, 277.—Abstract.

4464. Kielholz, A. Ueber Hysterie. (On hysteria.) *Fachbl. schweiz. Heime*, 1947, 18, 72-75.—The evolution of theory as to the origination of hysteria is sketched from Hippocrates to Freud and Kretschmer.—*F. C. Sumner.*

4465. Kielholz, A. Ueber Hysterie. (On hysteria.) *Fachbl. schweiz. Heime*, 1947, 18, 101-105.—Two typical cases of hysteria are presented which had been followed up by the author for nearly two decades. The author concludes that hysteria is an illness as severe and of as great consequence in most cases as a chronic infectious disease; that hysteria must be taken just as seriously and be treated with just as much love and care as these other diseases; that through distrust and poorly concealed disdain one drives the hysterical person only still more into her illness; that it is a dangerous act of false pity or of merely one's own convenience to treat the hysterical attacks and complaints with narcotics and thus to make an addict out of an hysterical person whereby her tendency to a misapprehension of reality is strengthened.—*F. C. Sumner.*

4466. Koller, A. Die Behandlung des chronischen Alkoholismus. (The management of chronic alcoholism.) *Gesundh. u. Wohlf.*, 1946, 26, 611-619.—The sequelae of chronic alcoholism can with prospect of success be gotten at with vitamin B in so far as irreparable injury has not been done to organs. However, vitamin B does not cure the alcoholic of his mania. For the treatment of the latter whose *conditio sine qua non* is permanent abstinence from

alcohol is the only sure way to the goal. In this psychotherapy the most difficult task is that which Bleuler calls "associative weaning," i.e., dissolution of the idea-connections which remind constantly of drinking. In their place new associations corresponding better to reality must be formed. In this reeducation of character it is of inestimable value if the patient knows at the same time how to gain a firm religious hold. A change of vocation is indicated where there is a danger of seduction to regular alcohol drinking. After cure the erstwhile drinker should participate in an abstinence society, his closer relatives should live with him abstemiously, no alcoholic beverages are to be permitted to be used in his home. It is of great value if the cured alcoholic takes upon himself the care of another victim of chronic alcoholism and active work in anti-alcoholic efforts.—*F. C. Sumner.*

4467. Schmideberg, Melitta. (18 East 64th St., New York.) On some neurotic difficulties in nursing mothers. *Psychiat. Quart. Suppl.*, 1946, 20, 147-155.—Four case histories are cited, designed to show the many complexes which may be stimulated by the physiological processes and the susceptibility to their environments of nursing mothers. The necessity for psychological care of pregnant women and nursing mothers is stressed.—*W. E. Artus.*

4468. Weinberg, Max H. The eclectic approach in the treatment of the neuroses. *Penn. med. J.*, 1947, 50, 370-376.—Five cases of severe neurosis of more or less long standing and of various types are presented in order to focus attention upon the following points: (1) that the most essential step in successful therapy is correct diagnosis; (2) that the most suitable treatment or a combination of treatments for the individual case should be selected; (3) that the essential of successful psychotherapy is to reveal the origin of the neurosis; (4) that full length psychoanalytic treatment should be limited to those few cases which are too complicated and show the origin of their symptoms in psychic trauma received in early life.—*F. C. Sumner.*

PSYCHOSOMATICS

4469. Getzoff, Paul L. (Louisiana State U., Sch. Med., New Orleans, La.) Impotence. *Med. surg. J.*, 1947, 100, 77-80.—22 men (16 officers and 6 enlisted men) referred to the author because of impotence ranged in age between 20 and 33. Some 15 different reasons for the impotence were advanced by the patients, however it soon became evident that the impotence was psychosomatic. With psychotherapy 19 of the group regained potency. The treatment consisted in (1) encouragement of the patient to discuss fully his familial, social, and educational background with a request for any theory that the patient might have as to the causation of the impotency; (2) reviewing these theories and attempting to explain the significance or fallacy of the data point by point. Wherever possible, sketches are drawn to simplify the presentation. The 3 most common reasons named by these men for the impo-

tence were: (1) guilt complex because of illicit sexual relations while stationed overseas; (2) extreme state of nervousness during missions and other hazardous situations associated with combat duty; (3) religious complex.—F. C. Sumner.

4470. Lurie, Louis A. (Child Guidance Home, Jewish Hosp., Cincinnati, O.) **Somatopsychic aspects of behavior disorders of children.** *Med. Clin. N. Amer.*, 1947, 31, 668-679.—The tendency of present day psychoanalytically and psychosomatically oriented psychiatry to minimize and even to ignore the role of somatic factors in the causation of abnormal behavior has gone so far that "even psychiatric social workers feel competent to diagnose and treat behavior disorders of children and adults without the aid of the physician or psychiatrist." The author maintains that function cannot be separated from structure and he draws attention to 2 groups of evidence pointing to the somatopsychic origin of behavior disorders: (1) behavior disorders and personality changes of central nervous system origin (pertussis encephalopathy, postencephalitis); (2) behavior disorders and personality changes resulting from endocrine disorders.—F. C. Sumner.

4471. Martin, Hermon W. (Emory U., Ga.) **The status of a case of hypogonadism five years after treatment cessation.** *Amer. Psychologist*, 1947, 2, 277-278.—Abstract.

4472. Meng, Heinrich. **Paradentosen und Psychologie.** (Pyorrhea and psychology.) *Schweiz. Z. Psychol. Anwend.*, 1943, 2, 249-255.—It is necessary to take into account a psychological factor in the origin of pyorrhea. Four case histories of neurotics are given in which psychogenic factors in pyorrhea can be demonstrated.—K. F. Muenzinger.

4473. Portis, Sidney A. **Is peptic ulcer a psychosomatic problem?** *Quart. Bull. Ind. Univ. med. Center*, 1947, 9, 27-29.—The peptic ulcer patient has a dependent personality, is usually insecure, has inferiority-complex and a great wish for love and to be loved. These emotional factors affect the stomach by way of the parasympathetic nervous system and it responds with increased secretion of acid, spasm and increased irritability. If the mucous protection is lost or displaced, this acid juice with pepsin digests the stomach or duodenal mucosa. This leads to ulceration, the size and extent of which depend upon exposure to the prolonged action of digestive juice.—F. C. Sumner.

4474. Schachter, M. **Profil neuro-endocrinien et psychologie de la ménopause.** (Neuro-endocrinal profile and psychology of the menopause.) *Sem. Hôp. Paris*, 1947, 23, 953-956.—The psychological reaction of women passing through the menopause is individually different. Single women manifest far more serious psychic trouble than do married women. Some women manifest healthy reactions while others have quite abnormal reactions. The author contends that how a woman passes psychologically through the menopause, i.e., how she reacts psychologically to the loss of her capacity to bear children, depends primarily upon her pre-existing vegetative-

endocrine constitution. The reaction to the menopause on the part of a hyperthyroid will differ from that of a hyperpituitary. The Rorschach test is seen as the best means of psychodiagnosing these psychodynamic constants.—F. C. Sumner.

SPEECH DISORDERS

4475. Greene, James S. (National Hospital for Speech Disorders, New York.) **Treatment of the disorders of speech.** *Post Grad. med. J.*, 1947, 1, 44-50.—Speech or voice disorder rarely develops as an isolated phenomenon but, in the vast majority of cases, is a peripheral manifestation of some underlying psychic or somatic involvement. Abnormalities in breathing apparatus, hearing, intelligence, cerebral areas and pertinent nerve connections, in language environment, in the emotions or endocrine glands will affect the speech function. The author reduces speech disorders to five major categories: (1) dysphemia or stuttering; (2) dyslalia embracing all articulatory defects other than those due to neurological conditions; (3) dysarthria or defect in articulation due to central nervous system involvements; (4) dysphasia (aphasias); (5) dysphonia embracing defects or disorders of phonation. Each category is described and the etiology and therapy are discussed.—F. C. Sumner.

4476. Love, William R. (U. Iowa, Iowa City.) **Stuttering: the problem and the physicians' responsibility.** *Canad. med. Ass. J.*, 1947, 57, 4-9.—Attention is directed to the prevalence of stuttering in the United States and Canada, to the variety of futile methods used to alleviate stuttering, to the many and sterile theories of stuttering, and to the serious responsibility of physicians to treat this ailment. The author believes Wendell Johnson in his "People in Quandaries" is on the right track to an understanding of the origin of stuttering. According to Johnson stuttering is "diagnosogenic," i.e., originates in branding as stuttering the hesitations and repetitions natural to the speech of young children.—F. C. Sumner.

MENTAL HYGIENE

4477. Dublineau, J. **Indications statistiques en hygiène mentale.** (Statistical indications in mental hygiene.) *Sem. Hôp. Paris*, 1946, 22, 1793-1803.—Numerous studies have been devoted in the past to statistical problems in mental hygiene but work in the field needs to be redone in the light of modern statistical methods. The imprecision of psychiatric nosology renders difficult the problem of a statistical unit. This problem leads to an abandonment of the notion of mental illness for that of mental syndromes, to an elementary as possible reduction of the factors in the multiple causation of mental illness and to a statistical study of the interrelation of these causal factors. Mental hygiene problems in need of statistical study are: the factorial analysis of the symptoms and causal factors; the correlation of morphological factors with pathological character-

types; the heredity of mental disease; the developmental curve of alcoholism; statistical appreciation of the relative efficacy of various therapeutic methods; mental health statistics in urban areas; mental health of children in school, at home, in trades; mental health statistics in the military.—F. C. Sumner.

4478. Jenkins, R. L. **Mental hygiene and social discipline.** *Proc. Inst. Med., Chicago*, 1947, 16, 418.—Abstract.

4479. Meng, Heinrich. **Statistik und Bild im psychohygienischen Unterricht.** (Statistics and pictures in psychohygienic instruction.) *Fachbl. schweiz. Heime*, 1947, 18, 42-44, 45-46.—Every medical discipline can draw pedagogical advantages from use of statistics, photographs and pictorial representations. That goes also for mental hygiene. The author illustrates this extension of visual education to mental hygiene by means of Cabot's statistics on headaches, Fritz Lange's photos of Goethe at various phases of his life and pictogram of the relative frequencies of the various types of mental illnesses. French translation pp. 45-46.—F. C. Sumner.

4480. Roubinovitch, J. (*La Salpêtrière, Paris.*) **Sur l'utilité d'un enseignement obligatoire d'hygiène mentale dans les facultés de médecine.** (On the utility of an obligatory instruction in mental hygiene in medical schools.) *Bull. méd. Paris*, 1947, 61, 200-201.—Mental hygiene is concerned with the prevention of psychic disequilibrium of individuals as well as of collectivities. Mental equilibrium depends on more than the physical environment and heredity. There are the socio-psychic influences extending as far back as early childhood and responsible for the great bulk of mental illness and constituting the chief sphere of mental hygiene as against physical hygiene. The author believes mental hygiene should be a compulsory course in the medical school curriculum, complementary to that of general somatic hygiene.—F. C. Sumner.

THERAPY AND REHABILITATION

4481. Baker, Elsworth. **Brief psychotherapy.** *J. med. Soc. N. J.*, 1947, 44, 260-261.—Brief psychotherapy is more of a first aid character where patient cannot make himself available for longer psychotherapy. Cooperation of the patient is essential. Six steps in the technique of brief psychotherapy are: (1) intellectual clarification of issues, particularly concerning sex and religion; (2) advice and guidance; (3) catharsis; (4) interpretation of transference and resistance; (5) prolonged supportive therapy without creating personality changes; (6) the attitude of the therapist. Situational difficulties are found to respond best to brief psychotherapy. The farther back in the life or constitution of the patient the source of the difficulty lies, the less successful is brief psychotherapy.—F. C. Sumner.

4482. Berman, Harold H. (*St. Lawrence State Hosp., Ogdensburg, N. Y.*) **Audio-visual psychotherapeutics; portable moving pictures with sound as a rehabilitation measure.** *Psychiat. Quart. Suppl.*,

1946, 20, 197-203.—The showing of sound motion pictures in mental hospitals has usually required the exclusion of a large number of the disoriented, the untidy, the disturbed, the actively self-destructive and many others. At St. Lawrence State Hospital, 16 mm. films with sound were shown to "shut-in" cases. Some of the results of this procedure were: the identification of the patient with characters observed, rapport between the patient and the talking picture, some help in habit training. It is suggested that advantage be taken of this factor as a therapeutic means.—W. E. Artus.

4483. Bink, Edward N. (*Utica State Hosp., Utica, N. Y.*) **Electric shock therapy.** *Psychiat. Quart. Suppl.*, 1946, 20, 233-243.—"Electric shock therapy consists essentially in the use of electricity in the production of a convulsion. This paper is a brief, non-technical discussion of its history, its administration, its risks, its results, and the theories of its mechanisms." 19 references.—W. E. Artus.

4484. Doe, Jonathan. (pseud.) **Insight.** *Psychiat. Quart. Suppl.*, 1946, 20, 156-159.—This is the publication of a paper written by a patient for his analyst, which indicates the development of the patient's insight into his own infantile tendencies.—W. E. Artus.

4485. Geert-Jørgensen, Einar. **A few comments on the position of psychotherapy in Denmark in connection with a case of anxiety neurosis cured by means of hypnosis.** *Acta psychiat., Kbh.*, 1946, 21, 307-318.—The author maintains that until very recent years "official" psychiatry in Denmark frowned on psychoanalytic and hypnotic treatment. The result has been that both of these specialties have fallen into the hands of lay practitioners. A case of alcoholism illustrating the excellent therapeutic results that may be obtained by hypnosis is reported and it is pointed out that the usual methods would not have been effective in this case.—A. L. Benton.

4486. Heersema, Philip H. **Symptomatic treatment in hysteria.** *Med. Clin. N. Amer.*, 1947, 31, 924-933.—The use of suggestion therapy in the control of conversion-hysteria symptoms is held expedient in selected patients, particularly in cases with traumatic incidents. The suggestion method found successful consists in a treatment of the symptom as if organic with some form of medicine, electricity, heat, or other physico-chemical agent so that the patient is provided the opportunity for graceful exit from illness without being branded by his friends as a neurotic, which is still a term of opprobrium in society. The patient should always be informed before dismissal of the role that the physiotherapy, the faradic current, the hypnosis, or the medication has played.—F. C. Sumner.

4487. Hurt, J. H. **Prefrontal leucotomy.** *Med. J. Aust.*, 1947, 1, 638-640.—From prefrontal leucotomy operations on twenty patients the following generalizations are drawn: (1) that the prognosis in this form of treatment depends on the acuteness of the onset of illness, previous good personality bal-

ance, the age (under middle age), the shortness in time which the condition has been running; (2) that the operation produces a cessation of rumination over delusions, hallucinations, and obsessional ideas; (3) that patient following the operation becomes for some days cheerful, bright, talkative, facile, laughing; (4) that the operation should not be attempted on young patients except in utter extremity; (5) that the operation appears to prove most successful in obsessional states, involutional melancholia, and in some cases of paranoia; (6) that after the operation concern must be had for the rehabilitation of patient.—F. C. Sumner.

4488. Katz, Elias. (Crile General Hosp., Cleveland, O.) A brief survey of the use of motion pictures for the treatment of neuropsychiatric patients. *Psychiat. Quart. Suppl.*, 1946, 20, 204-216.—The use of films for: (1) individual and group psychotherapy; (2) entertainment purposes; (3) educational, vocational and inspirational purposes, is summarized. With regard to the first category, films have been used to provide insight into mechanisms of adjustment. Auratone films have been used to make patients with psychotic depressions more accessible to individual and group psychotherapy. Films for entertainment should be carefully evaluated by psychiatric and psychological criteria before exposing mental patients to them, as should educational, vocational guidance, and propaganda films. 26 references.—W. E. Artus.

4489. Leader, Arthur L. (V. A. Mental Hygiene Clinic, Providence, R. I.) The use of psychiatric social work in conjunction with group therapy. *J. soc. Casework*, 1947, 28, 269-275.—A case is presented to demonstrate how a social worker can function as a therapeutic assistant in conjunction with group therapy to effect a partial personality change. It was found that group therapy used together with individual interviews produced the most effective results.—V. M. Stark.

4490. Lyonnet, Julio H., Castedo, César, & Etchegoyen, Juan Carlos. La leucotomía prefrontal. Tratamiento quirúrgico de la psicosis. (Prefrontal leucotomy. Surgical treatment of psychosis.) *Prensa méd. argent.*, 1946, 33, 2003-2015.—Bilateral prefrontal leucotomy is a surgical procedure which in experienced hands offers no special risks, its mortality tending to decrease from 4 to 2%. It is the treatment to be elected in cases resistant to shock therapy. Leucotomy gives very good results in depressive psychoses and schizophrenia. The author finds in his limited experience (35 cases) that leucotomy yields a favorable solution in patients with most limited perspectives.—F. C. Sumner.

4491. Mathews, W. Mason, et al. (Merrill Palmer School, Detroit, Mich.) Treatment of a child in conflict. *Amer. Psychologist*, 1947, 2, 315.—Abstract.

4492. Michaels, Joseph J., & Thornton, Mary K. (Newton D. Baker General Hosp., Martinsburg, W. Va.) Recreation work as a therapeutic adjunct on a neuropsychiatric service in an Army general hospital. *Psychiat. Quart. Suppl.*, 1946, 20, 253-260.—

This is a description of the recreation service of the American Red Cross on the neuropsychiatric service of Newton D. Baker General Hospital. The principles of recreation and group work are outlined as they apply specifically to work with psychoneurotics and with psychotics.—W. E. Artus.

4493. von Mural, Alex. Gedanken zur Frage der Psychotherapie. (Thoughts on the question of psychotherapy.) *Gesundh. u. Wohlf.*, 1947, 27, 140-145.—Ultimately the success of psychotherapy depends on three factors: (1) the physician whose psychotherapy he himself is, as Bleuler has put it; (2) a certain correspondence between physician and the patient; (3) the will to health of the patient which even the best physician cannot instill.—F. C. Sumner.

4494. Paterson, A. Spencer. New physical treatments in psychiatry; electronic convulsive therapy and electronarcosis. *W. Lond. med. J.*, 1947, 52, 42-47.—Steps and precautionary measures in the use of electroshock and electronarcosis are indicated, and results as obtained with their use at the West London Hospital are set forth. Both electric convulsion therapy and electronarcosis have the advantage over drug induced convulsion therapies of saving hospital space in that they lend themselves to treatment of out-patients provided the latter are carefully selected. In electric convulsion therapy a single shock for a fraction of a second is given, while in electronarcosis the current is continuously applied in all for 7 minutes. A case is presented in which hearing of voices and uncontrolled behavior of one year's standing were the complaints which were terminated by electronarcosis.—F. C. Sumner.

4495. Pepinsky, Harold B., & Pepinsky, Pauline N. (Michigan State Coll., East Lansing.) Implications of social dynamics for methods of therapy with college students. *Amer. Psychologist*, 1947, 2, 292-293.—Abstract.

4496. Snowden, E. N. Physical methods and psychotherapy. *W. Lond. med. J.*, 1947, 52, 51-57.—Three types of physical therapies in mental illness are described: (1) pharmacologic methods, (2) the convulsion methods, and (3) prefrontal leucotomy. Failures of these methods far outnumber successes but the failures appear to be decreasing with greater knowledge of the type of case most suited for each particular method. Because cases of mental illness lending themselves to psychotherapeutic methods are more numerous than cases lending themselves to physical methods of therapy medical schools should train their students in psychotherapy.—F. C. Sumner.

4497. Todd, Kathleen M. The therapy of play. *Ment. Hlth, Lond.*, 1944, 5, 3-7.—Group play is to be distinguished from play therapy. Play in the group permits observation of the behavior of children in an unfamiliar setting where conventional rules are not imposed and the "natural" child emerges. Although there may be therapeutic effects, as in cases where socialization is a central problem for the child, it is not a specific treatment which could be called psychotherapy. Play therapy is one type of clinical psychological treatment in which the therapist

utilizes the ability of the child to use toy material and dramatic play as a medium of expression for his phantasy life. Therapy reaches its desired goal more rapidly if it is individual. The play should never be confined to one set of materials nor dependent upon a wealth of complicated material. Above all it should be remembered that "play" is only one, though an important one, of the treatment approaches in child therapy.—*M. E. Wright.*

CLINICAL PSYCHOLOGY

4498. Elizarráz, G., Francisco. *Profilaxis del contagio mental en la escuela clínicas de conducta.* (Prevention of mental contagion in the school clinics.) *Rev. Inst. nac. Pedag., Méx.*, 1947, 1, 29-32.—A report of the work of the conduct clinic of the National Institute for Pedagogy, showing that a large proportion of the children need psychological care. There are in the area served by the clinic approximately 14,000 kindergarten children, 300,000 in the primary schools, and 17,500 in the secondary schools. After a thorough study of 2,486 cases the problems presented were distributed into 13 groups of which "idiots," "low mentality," and "subnormal" included approximately 50% of the cases. The need for individual work with these children in the school and home is urgent.—*E. R. Oswalt.*

4499. Ericson, Martha. (Merrill-Palmer Sch., Detroit, Mich.) *A study of the Thematic Apperception Test as applied to a group of disturbed children.* *Amer. Psychologist*, 1947, 2, 272.—Abstract.

4500. Graham, Clarence H., et al. Summary report of work done under contract No. OEMsr-66 project No. 10, section D-2, N.D.R.C., by the Brown University Psychology Department. (1942; Publ. Bd. No. M 55787.) Washington, D. C.: U. S. Dep. Commerce, 1947. Pp. 5. \$1.00, microfilm; \$1.00, photostat.—Work at Brown University under this project has been mainly concerned with the selection of emotionally unstable service personnel. The program has included an analysis of a "Neurotic" Inventory (Personnel Form R-2 of the National Research Council) for the purpose of improving its function as a predictor of unstable "cases," described here. The general characteristics of reaction time test, which seems to be successful in selecting emotionally unstable personnel, are considered, as well as general results obtained with a battery of selective tests. Some of the work has been concerned with improvement of height finding performance, with special reference to investigating the adequacies of different types of reticles. An apparatus for the comparison of stereoscopic settings with different reticles, together with some illustrative results, is described.—(Courtesy *Bibl. scient. industr. Rep.*, U. S. Dep. Commerce.)

4501. Hunt, Howard F. (Stanford U., Calif.), Cass, William A., Jr., Carp, Abraham, & Winder, Clarence L. A study of the effect of the K correction on the differential diagnostic efficiency of the Minnesota Multiphasic Personality Inventory. *Amer. Psychologist*, 1947, 2, 273.—Abstract.

4502. Moodie, William. (London Child Guidance Training Centre, London, England.) *The doctor and the difficult child.* (2nd ed.) New York: The Commonwealth Fund, 1947. Pp. xiv + 231. \$2.00.—In the revised edition of this work new chapters on play treatment and child guidance clinics have been added. The rest of the text is practically unaltered. The author points out that the responses of children to the insecurity, fear, change, and family disruption caused by war conditions vary only in degree from those met in ordinary life. The conditions are new, or exaggerated. The children are as they were. Recognition, study, and treatment of problem behavior is discussed, and specific problems of behavior in child guidance cases are illustrated (see 15: 1562).—*M. Mercer.*

4503. Naumburg, Margaret. (New York State Psychiatric Institute, New York.) *Studies of the "free" art expression of behavior problem children and adolescents as a means of diagnosis and therapy.* *Nerv. ment. Dis. Monogr.*, 1947, No. 71. Pp. xi + 225. \$5.50.—Six case reports presenting the importance of phantasy expression through spontaneous plastic and graphic art as aids in psychiatric diagnosis and therapy. Many illustrations. All of the material has been previously published (see 19: 832, 1088, 1499; 20: 1919, 2146, 4396).—*E. M. L. Burchard.*

4504. Peters, Mary Overholt. *Talks with beginning social workers. Part II: Understanding the client.* *J. soc. Casework*, 1947, 28, 254-260.—The social worker must develop tolerance toward her client and apply the principle that each individual and what happens to him is important. Several factors are pointed up in the case work process. Skillful interviewing is emphasized as the source of both giving and gaining information. Case records should be objective and give a clear, concise picture of the client and his situation. The last point of advice is that caseworkers should make use of supervision as a teaching process.—*V. M. Stark.*

4505. Phillips, E. L., & Wiener, D. N. (U. Minnesota, Minneapolis.) *Relationships between selected disability and disease groups and the Minnesota Multiphasic Personality Inventory.* *Amer. Psychologist*, 1947, 2, 274.—Abstract.

4506. Rashkis, Harold A. (Psychiatric Inst., Columbia U., New York.) *Three types of thinking disorder: an investigation of the behavior on special tests of schizophrenics, general paralytics, and cerebral arteriosclerotics.* *Amer. Psychologist*, 1947, 2, 283.—Abstract.

[See also abstracts 4189, 4223, 4228, 4256, 4312, 4372, 4373, 4381, 4395, 4399, 4401, 4423, 4424, 4607, 4641, 4651.]

SOCIAL PSYCHOLOGY

4507. Adelsberger, Lucie. *Psychologische Beobachtungen im Konzentrationslager Auschwitz.* (Psychological observations in the concentration camp Auschwitz.) *Schweiz. Z. Psychol. Anwend.*, 1947, 6, 124-131.—Ethical and scientific considera-

tions demand that one does not forget what happened in concentration camps. The author, who was herself an inmate of such camps for 2 years, describes the reactions which she has experienced and observed in this modern inferno. There was a general relapse into an animal state, but also in many cases an unexpected increase in strength and endurance. The susceptibility to disease was altered. In place of the usual diseases of civilization there occurred those of creatures living in a wild state. Life in the face of death acquired an extraordinary intensity with all non-essentials losing their significance.—K. F. Muenzinger.

4508. Bain, Read. (Miami U., Oxford, O.) *Sociology as a natural science.* *Amer. J. Sociol.*, 1947, 53, 9-16.—Natural science is differentiated from other modes of knowledge by method, not by subject matter. The revolutionary concept that social phenomena are natural phenomena and therefore can be studied by natural-science methodology is being rapidly accepted. Some of the most frequently used arguments that sociology "cannot be scientific" are refuted by showing the relative orderliness and approximate predictability of certain classes of social phenomena. Such prediction will never cover all aspects of social behavior. The same is true of the prediction of physical and biological phenomena.—D. L. Glick.

4509. Bidney, David. (The Viking Fund, New York.) *Culture theory and the problem of cultural crises.* In Bryson, L., *Approaches to group understanding.* (see 21: 4510.) Pp. 553-573.—An attempt is made to define culture so that it extracts from idealistic, realistic, and positivistic approaches that which they have stated correctly. Culture is "... the dynamic process of human self-cultivation and comprises the integral development and organization of the potentialities of human nature with a view to fitting man for life in society within a given geographical environment at a given stage of technical development." Culture thus includes present behavior (instrumentally considered), and ideas and ideals which have independent reality attributed to them. However we cannot understand culture unless we recognize it as one end of an axis with human nature at the other end; the two are thus polar and define one another. A cultural crisis arises when a conflict between ideals and welfare or security threatens.—R. A. Littman.

4510. Bryson, Lyman (Teachers Coll., Columbia U., N. Y.), Finkelstein, Louis, & MacIver, R. M. [Eds.] *Approaches to group understanding; sixth symposium.* New York: Harper, 1947. Pp. xxv + 858. \$5.00.—"The papers included in this volume were prepared for the sixth meeting of the Conference on Science, Philosophy and Religion in Their Relation to the Democratic Way of Life" which was held in 1945. A total of 67 papers was given, covering contributions from all social and art fields. Each paper is accompanied by comments made upon it at the conference. The main theme of the papers is the analysis of the concept of culture, how an

objective notion can be given to the layman, and what the various professional disciplines can contribute to this educational task. Because the conference was held just at the completion of the war, the atom bomb and warfare in general form the major reasons why the goals of the conference are of such great importance. The following 12 papers are abstracted in this issue: Lasswell (4551), Morgenthau (4553), Cousins (4562), Nahm (4580), Andrews (4197), Chapple and Coon (4511), Gallagher (4528), Graubard (4547), Thompson (4516), Allers (4196), Bidney (4509), and Reis (4204).—R. A. Littman.

4511. Chapple, Eliot D. (Massachusetts General Hosp., Boston), & Coon, Carleton S. *Anthropology and world planning.* In Bryson, L., *Approaches to group understanding* (see 21: 4510). Pp. 411-423.—Society is to a great extent regulated by its technological status and environmental offerings. The level of technology determines the existence and operation of many institutions such as labor union, factories, brokers, etc. Tensions of all sorts arise because of interplay between technology and environment. A degree of specialization has resulted which has made a "One World" in part. It is now necessary to extend this dependence to political spheres. The exploited areas of the world will not remain sources of supply indefinitely, they will take up their own technology and exploit their own resources. Unless we desire obliteration it is necessary to integrate all political entities before irreconcilable conflicts develop.—R. A. Littman.

4512. Favre, André. *Sociétés animales et sociétés humaines.* (Animal societies and human societies.) *Schweiz. Z. Psychol. Anwend.*, 1947, 6, 113-123.—It is shown how mass movements in insects, mammals, and humans may occur and what may be their consequences. Although the differences between the vertebrates and non-vertebrates are emphasized, common characteristics are also pointed out. Certain movements, such as migrations and wars, endanger the existence of societies. Social comparative psychopathology may thus be of much interest to the psychiatrist.—K. F. Muenzinger.

4513. Findley, Warren G., & Greene, James E. (Air U., Maxwell Field, Ala.) *A statistical index of participation in discussion.* *Amer. Psychologist*, 1947, 2, 287.—Abstract.

4514. Maurer, Katharine M. (U. Nebraska, Lincoln.) *Measuring leadership in college women by free association.* *Amer. Psychologist*, 1947, 2, 334.—Abstract.

4515. Sieben, Walter. *Grundlagen der Gemeinschaft.* (Foundations of community.) *Schweiz. Z. Psychol. Anwend.*, 1943, 2, 91-100.—A discussion of the manifestations of gregarious tendencies.—K. F. Muenzinger.

4516. Thompson, Laura. *In quest of an heuristic approach to the study of mankind.* In Bryson, L., *Approaches to group understanding* (see 21: 4510). Pp. 503-526.—Modern science is strictly causal and dynamic and has led to reformulation of the data of special fields. Beliefs that culture is autonomous

are in error and the fundamental datum of cultural anthropology is really a "psycho-socio-cultural whole in geographical and historical perspective." Similarly the basic unit of research is the "nature-culture-personality event in space and time." The basic problems for research are essentially investigations concerning dynamic structure or form (see 21: 4197). Finally actual investigations will be carried on by some type of postulational procedure rather than raw, empirical, inspectional techniques. An illustrative investigation of the Hopi character and behavior is reported and 3 dominant themes—humanism, symbolism, and responsibility—are found to be characteristic of Hopi culture. This is taken to support Cassirer's view that the essence of man is symbolic behavior. In an appendix the author offers illustrations of her analysis from Hopi art, mythology, language, music, and ceremony.—R. A. Littman.

4517. VanDusen, Albert C. (Northwestern U., Evanston, Ill.) Method for establishing leadership criteria. *Amer. Psychologist*, 1947, 2, 333.—Abstract.

4518. Williams, Elgin. (New York U.) Sociologists and knowledge. *Phil. Sci.*, 1947, 14, 224-230.—The "sociology of knowledge," that is, the science of the systems of belief of different groups, is hampered by the idea that science should be objective and should not evaluate facts. Some beliefs are better than others when subjected to the test of efficiency. Sociologists should make more of the distinction between scientific and ceremonial behavior, and they should get rid of a mistaken objectivity and amorality.—F. Heider.

METHODS AND MEASUREMENTS

4519. Cahalan, Don, & Tamulonis, Valerie M. (U. Denver, Colo.) The effect of question variations in public opinion surveys. *Amer. Psychologist*, 1947, 2, 328-329.—Abstract.

4520. Cattell, Raymond B. (U. Illinois, Urbana.) The psychological dimensions of groups. *Amer. Psychologist*, 1947, 2, 335-336.—Abstract.

4521. Edwards, Allen L., & Kilpatrick, Franklin P. (U. Washington, Seattle.) The scale-discrimination method for measuring social attitudes. *Amer. Psychologist*, 1947, 2, 332-333.—Abstract.

4522. Kornhauser, Arthur. (Bureau of Applied Social Research, New York.) Problems and possibilities in polling experts on social issues. *Amer. Psychologist*, 1947, 2, 329.—Abstract.

4523. Sparks, Charles P. (Personnel Research Section, AGO, Washington, D.C.) Construction and standardization of the Army Activities Preference Blank. *Amer. Psychologist*, 1947, 2, 341.—Abstract.

CULTURES AND CULTURAL RELATIONS

4524. Abe, Shirley. (U. Hawaii, Honolulu.) Violations of the racial code in Hawaii. *Social process in Hawaii*, 1945, 9, 33-38.—"One of the important effects of the war upon Hawaii has been the violation of its traditional racial code. . . . Known for its

comparative racial equality, Hawaii has not accepted the Negroes on the same level as it has the . . . other temporary or permanent races residing in the Islands." The existence of this equality attitude is based on the excess of males in the population in early times and the ethnic heterogeneity of the population. However, this equality is said to be overt; covertly there has been prejudice in regard to profession, residence, etc. The primary factor for anti-Negro feeling, however, is the adoption of patterns brought in by whites from different areas of the U. S. mainland. It is suggested that the presence of the Negro has acted as a catalyst and brought out many concealed prejudices and discriminations previously operating ambivalently.—R. A. Littman.

4525. Bettelheim, B., Janowitz, M., & Shils, E. A. (U. Chicago, Ill.) A study of the social, economic, and psychological correlates of intolerance among urban veterans of enlisted rank. *Amer. Psychologist*, 1947, 2, 323.—Abstract.

4526. Espenschade, Anna. (U. Calif., Berkeley.) A note on the comparative motor ability of Negro and white tenth grade girls. *Child Developm.*, 1946, 17, 245-248.—Results on the Brace Test of motor ability for 35 Negro girls matched with an equal number of white girls on the basis of age, weight, and height are reported. The average total scores for the two groups do not differ significantly, but the white girls do tend to be superior to the Negro girls on two parts of the tests involving a sense of balance.—L. Long.

4527. Flowerman, Samuel H. Polls on anti-Semitism: an experiment in validity. *Amer. Psychologist*, 1947, 2, 328.—Abstract.

4528. Gallagher, Buell G. (Pacific Sch. Religion, Berkeley, Calif.) Christianity and color. In Bryson, L., *Approaches to group understanding* (see 21: 4510). Pp. 453-468.—It is necessary to consider race as an ethical, scientific, and philosophical problem. Science has contributed the knowledge that no group of men by virtue of any special physical characteristics is superior to another. White supremacy is a recent arrival and cannot be dealt with as an international problem until the attitudes of the white man are changed. The task of religion is to furnish the rationale for the ideals of justice and brotherhood as twin virtues. Thus, even if groups are finally demonstrated to be innately unequal they are nevertheless entitled to equal consideration. This decision calls, essentially, for an attitude of indifference to race; such an attitude will permit integration which is differentiated from amalgamation and various other proposals.—R. A. Littman.

4529. Glad, Donald D. (Palo Alto, Calif.) Attitudes and experiences of American-Jewish and American-Irish male youth as related to adult inebriety rates. *Amer. Psychologist*, 1947, 2, 289-290.—Abstract.

4530. Haas, Margot, & Cook, Stuart W. (Commission on Community Interrelations of the American Jewish Congress, New York.) The use of the com-

munity self survey in combatting discrimination. *Amer. Psychologist*, 1947, 2, 329.—Abstract.

4531. Harding, John, Citron, Abraham F., & Selltitz, Claire. (*Commission on Community Interrelations of the American Jewish Congress, New York.*) Personal incidents: a study of the effectiveness of various types of answers to anti-minority remarks. *Amer. Psychologist*, 1947, 2, 336.—Abstract.

4532. Hogrefe, Russell, Evans, Mary Catherine, & Chein, Isidore. (*Commission on Community Interrelations of the American Jewish Congress, New York.*) The effect of intergroup attitudes of participation in inter-racial play center. *Amer. Psychologist*, 1947, 2, 324.—Abstract.

4533. Jahoda, Marie, & Ackerman, Nathan W. (*American Jewish Committee, New York.*) Some remarks on the motivation for anti-Semitic attitudes. *Amer. Psychologist*, 1947, 2, 322.—Abstract.

4534. Kubo, Judy. (*U. Hawaii, Honolulu.*) The Negro soldier in Kahuku. *Social process in Hawaii*, 1945, 9, 28-32.—The war brought many Negro soldiers to Hawaii who "expected to find Hawaii a place with equality for all races." They entered a society which, in 1940, had a total of only 255 Negroes. In 1943 a study was made of the reactions of the plantation people of Kahuku, Oahu (pop. 2,251) who had never before had any contact with Negroes, to a group of Negro soldiers mainly from the southern U. S. "The Negro soldiers have not been accepted by the majority of people in Kahuku . . . [they] were objects of curiosity, fear and suspicion." Rumors were widely circulated about Negro friendliness and brashness. With continued contact the Negro is receiving greater acceptance though female attitudes are changing most slowly. A great factor in the female prejudice is the presence of white servicemen who utilize derogation towards the Negro as one technique of competition for dates. In Pearl City, where Negro servicemen outnumber the white soldiers there is considerably more acceptance.—R. A. Littman.

4535. Leib, Arthur. Über die Malagasy Vorstellungen des Herzens. (On the Malagasy ideas of the heart.) *Schweiz. Z. Psychol. Anwend.*, 1943, 2, 83-91.—On the basis of a discussion of 9 Malagasy proverbs referring to the heart the author points out that the Malagasy emphasize only its "negative" side, its softness, excitability, and complaints.—K. F. Muensinger.

4536. Lind, Andrew W. (*U. Hawaii, Honolulu.*) Sociological studies in wartime Hawaii. *Social process in Hawaii*, 1945, 9, 5-10.—In order "to observe, measure, analyze, and perhaps predict" the effect of the social disorganization of World War II, the War Research Laboratory of the University of Hawaii was established with the author as part-time member and director. Part-time personnel assisted in analyzing developments in race relations and civilian morale. The methods involved the use of diaries, informal interview and observation, questionnaires and other polling devices, and indexing of pertinent news items. Emphasis was placed on the

structure of, and changes in, race relations because of the great variety of racial groups in Hawaii, with special attention paid to the Negro soldier and Japanese civilian in their relations with one another, the native population, and the Caucasian and Chinese members of the community.—R. A. Littman.

4537. Meister, R. Geistige Objektivierung und Resubjektivierung: Kultur und Erziehung. (Mental objectivism and resubjectivism: culture and education.) *Wien. Z. Phil. Psychol. Pädag.*, 1947, 1, 56-72.—Each subject of culture and the culture as a whole are objectivities from the psychic. Three problems are discussed: first, the position of culture in the field of psychic objectivism; second, the analysis and description of these 2 processes of objectivism and re-subjectivism; third, the relationship of culture to education.—C. Bondy.

4538. Munch, Peter A. (*U. Oslo, Norway.*) Cultural contacts in an isolated community: Tristan da Cunha. *Amer. J. Sociol.*, 1947, 53, 1-8.—Two hundred persons of various ethnic origins live in almost complete isolation on the Island of Tristan da Cunha. They have developed a social order which is distinctive and consistent on the basis of a predominantly British culture. There is a tradition of equality and no established ranks or classes exist. Nevertheless there are differences in prestige based on individual variability primarily in terms of industriousness. There is also some prestige attached to light skin color. The people have developed a sense of themselves as inferiors in comparison with outsiders.—D. L. Glick.

4539. Rademaker, John A. (*U. Hawaii, Honolulu.*) Consequences of evacuation of Japanese Americans from the Pacific Coast of the United States. *Social process in Hawaii*, 1945, 9, 98-102.—In part the enforced removal from the West Coast has been helpful to the Nisei. He has become more aware of the East, the Mid-West, and the South as occupational areas and many have decided to stay where they were relocated. They have become less naive, better informed and not as inclined to work only in commerce and agriculture. Labor unions and new freedoms have been discovered. The Nisei are generally differentiated from Japanese emigrants and in the South have been accepted "as of the white caste, in most cases." The West Coast maintains its traditional antagonism, but the Mountain States which absorbed most of the Nisei have not legalized any objections. Finally, the evacuation of the Japanese-Americans and their treatment during the war is a special case of minority treatment, solely because of the long struggle between California and Japan and because of the open hostilities between Japan and the entire United States.—R. A. Littman.

4540. Ranulf, Svend. Socialvidenskabelig metodelaere. (Teaching methods for sociology.) København: Ejnar Munksgaard, 1946. Pp. 260. Dan. cr. 14.50.—The conflict of Fascism and democracy, as social forces in Europe, is discussed fully. The attempts at influence of the German Nazism

upon Danish social life is explained, yet also, the resistance and rejection of this by the Danes, because of the traditional attitudes of fear and contempt for the Germans. In connection with this situation, the discussion includes the various devices of culture, empirical data, nationality, propaganda, and negativistic philosophy, all freely used by the Nazis in all of the occupied countries. Mention is also made of various German sociologists who were not in agreement with Nazism, but who, nevertheless, contributed to thought and attitudes in their sciences. The great influence of democratic philosophy is felt throughout Europe since liberation from Germany, due to forcing peoples to yield to dictators' demands, which has, in the long run, created a preference and desire for liberty, while condemning, in general, all that the dictator stands for or does. Mention is made of further research among the Danes as to their attitudes toward a new Nazism.—O. I. Jacobsen.

4541. Remmers, H. H., & Wood, Wendell F. (Purdue U., Lafayette, Ind.) *Changes in attitudes toward Germans, Japanese, Jews, and Nazis.* *Sch. & Soc.*, 1947, 65, 484-487.—The present attitudes of a group of 396 students in classes in elementary psychology are compared with those exhibited by similar subjects in three previous studies in 1935, 1942, and 1945. The results reveal that the average attitude toward Germans, which was relatively favorable and unchanged from 1935-1945, has become more favorable since the end of the war. The marked downward shift in attitudes toward the Japanese which was noted at the beginning of the war has given way to a sharp upward turn in the present study. Over the past 12 years there were no significant changes in attitudes toward Jews. Attitudes toward this group show a consistently greater variability as compared with those toward Germans and Japanese. The average attitude toward Nazis took a sharp drop at the outbreak of war, and no significant change has taken place since that time.—R. C. Strassburger.

4542. Roberts, S. O. (Fisk U., Nashville, Tenn.) *Socio-economic status and academic performance of Negro college women, north and south.* *Amer. Psychologist*, 1947, 2, 314-315.—Abstract.

4543. Róheim, Géza. (1 West 85th Street, New York 24.) *Charon and the obolos.* *Psychiat. Quart. Suppl.*, 1946, 20, 160-196.—This is an examination of the custom of burying material objects of various sorts along with the dead in European and non-European folklore. In some cases, the custom is a means of paying the ferryman of the underworld, Charon; in others, it may be a survival of the custom of burying all of the dead person's possessions with him. Analysis of these burial customs is coupled with dream-analysis to reveal the connection between the rowing of the ferry-boat and the primal scene. 201-item bibliography.—W. E. Artus.

4544. Saenger, Gerhart (New York U.), & Cordon, Norma. *Psychological problems of minority group members in utilizing anti-discrimination legis-*

lation. *Amer. Psychologist*, 1947, 2, 323-324.—Abstract.

4545. Thompson, Laura, & Joseph, Alice. *White pressures on Indian personality and culture.* *Amer. J. Sociol.*, 1947, 53, 17-22.—The effect of white contacts on two Hopi communities of similar geographic environment and similar cultural heritage has differed significantly. In the one, changes have proceeded according to an essentially integrative pattern, while in the other they have been disruptive. An inquiry into this problem, by the use of psychological as well as anthropological techniques, reveals the far-reaching significance of the ceremonial system in maintaining the delicate balance of the Hopi social system and personality.—D. L. Glick.

SOCIAL INSTITUTIONS

4546. Goode, William J. (Wayne U., Detroit, Mich.) *Education for divorce.* *Marriage Fam. Living*, 1947, 9, 35-36.—The marriage clinic attempts to seek solutions for its clients which will be in conformity with middle-class norms hence has tended to advise adjustment rather than divorce, for "divorce is not institutionally integrated in the society." However, in the face of the continued secular rise in divorces and the specialized war-associated rise, it seems that some attention might be directed to divorce, instead of adjustment, as an alternative. In education for divorce, clinical activity "will be directed toward helping individuals divorce early who are clearly incompatible. In addition, the great number of divorces occurring between potential compatibles suggests that the clinic has a real task in preventing the deep personality distortions which often result, using its therapeutic and information services in ways calculated to bridge the gap between maladjustment to adjustment."—L. H. McCabe.

4547. Graubard, Mark. (U. S. Dept. Agriculture, Washington, D.C.) *Scientific hypotheses and the culture matrix.* In Bryson, L., *Approaches to group understanding* (see 21: 4510). Pp. 469-491.—Belief in magic was conditioned by man's innate constitution, especially the desire for survival. These beliefs dominated the cultural matrix until changes brought on by discovery and new science set up new systems of thought and faith. Thus astrology succeeded magic as an instrument to acquire security. Any change in belief and action is due to the changes in values and creeds as a result of emotional tensions of individuals and groups; the tensions lead man to reorganize his conduct. Any scientific schemata, such as 19th century mechanism, exists within a culture matrix and follows general patterns of behavior—material betterment, in this illustration. At present it is necessary to adopt an integrating point of view to avoid destruction and this requires the reorganization of all scientific and socio-political aims.—R. A. Littman.

4548. Hormann, Bernhard. (U. Hawaii, Honolulu.) *A study of civilian morale, 1944.* *Social process in Hawaii*, 1945, 9, 17-24.—In the spring of 1944 "780 High School and University students [343

male, 437 female] answered anonymously" a 3 page questionnaire indicating only their sex and racial origin. There were part Hawaiians, Haoles, Chinese, Korean and Japanese respondents, the latter representing 59% of the total. The subjects came from Hawaii, Oahu, and several other islands and students from 2 private schools were included. Questions were asked about Selective Service, martial law, wartime strikes, negotiated peace with Japan and Germany, dating between Oriental girls and Haole (white) service men, preferred post-war residence and the behavior of various ethnic groups on the basis of several "Guess-Who" items. Results are given for all items in percents. Data are analyzed in terms of the responding populations and these groups categorized by sex and ethnic membership. The data are presented with a minimum of critical comment.—R. A. Littman.

4549. Kitay, Philip Morton. *Radicalism and conservatism toward conventional religion; a psychological study based on a group of Jewish college students.* *Teach. Coll. Contr. Educ.*, 1947, No. 919. Pp. viii + 117. \$2.10.—This investigation was made to determine the relationships between favorableness toward religion and such other variables as life history data, personal outlook, and opinions on social issues. The usefulness of personal documents was also investigated. Autobiographies, essays on their attitudes, and responses to personal data questionnaires, attitude toward the church scales, sociological attitude scales, and politico-economic attitude scales were obtained from 139 Jewish students at the Commerce Center of CCNY in 1941-42. Significant differences between pro- and anti-church groups were found in various characteristics. The pro-church group came from more religious and harmonious homes, had experienced fewer traumatic conditions, were more conservative on politico-economic issues, and had fewer sexual difficulties. The autobiographies and essays demonstrated the productivity of personal documents in the investigation of traumatic experiences. 42-item bibliography.—N. L. Gage.

4550. Landis, Judson T. (Michigan State Coll., East Lansing) *Adjustments after marriage.* *Marriage Fam. Living*, 1947, 9, 32-34.—409 couples whose marriages had lasted for an average of 20 years and among whom there had been no divorces or separations, responded in a questionnaire study which attempted to determine (1) how much time is required after marriage for couples to arrive at adjustments in 6 different areas, and (2) the relationship between the time taken to adjust in the different areas and the happiness of the marriage. Among the 22 findings reported are the following: The 6 areas listed in the order, from most to least time required to adjust, were: sex relations, spending the family income, social activities and recreation, in-laws, religious activities, mutual friends. Many husbands and wives disagreed as to whether adjustment had been made. Approximately 25% of the couples had not achieved adjustment satisfactory to

both in all six areas. With one exception, religion, those married under 20 took longer to adjust than those married over 20. The sooner an adjustment was made, the more likely the marriage was to be considered happy. A larger percentage of the 94 people with no children rated their marriages as "very happy" than did persons with children; these tended to rate marriages as "happy."—L. H. McCabe.

4551. Lasswell, Harold D. (Yale U., New Haven, Conn.) *Toward a skill commonwealth: a workable goal of world politics.* In Bryson, L., *Approaches to group understanding* (see 21: 4510). Pp. 290-302.—The main thesis of this paper is that there are certain major trends characteristic of the major nations today as a result of similar technologies and institutions. We have therefore an historical epoch whose major trends are (1) individual achievement is increasingly rewarded; (2) increasing opportunities for acquiring, exercising, controlling and rewarding skills are apparent. Especially with regard to the controlling of skill and organization toward that end there is the possibility of one or more skill commonwealths on a worldwide basis. These commonwealths are conceived to be individualistic and liberative and "is the version of a free society that fits the age of science and technology." There is no determination by the author as to whether these commonwealths are to afford a basis for new political states or whether they simply represent implements to present organization.—R. A. Littman.

4552. Laycock, Samuel Ralph. (U. Saskatchewan, Saskatoon.) *Family team work.* Toronto: Ryerson Press, 1947. Pp. 52. 50c.—Happy family living is the theme of this popularly written booklet. Separate discussions deal with factors that make for happy homes—serenity, loyalty, team spirit, good principles, helpfulness, wholesome recreation, and opportunities for both mental and spiritual growth. Questions appropriate for group discussion are provided at the end of the booklet.—A. S. Artley.

4553. Morgenthau, Hans J. (U. Chicago, Ill.) *Ethics and politics.* In Bryson, L., *Approaches to group understanding* (see 21: 4510). Pp. 319-341.—"For a scientific age has attempted to reduce moral problems to scientific terms and has thus obscured and distorted the true meaning of the problems." The conflict between political and individual morality results from an imperfect analysis of political and individual behavior. There is really no such thing as state action, only the actions of individuals. As such morality is not dualistic but simply variable, the ethical conflict results from man's basic nature which incorporates a power drive opposing any altruistic motives. Man is not omniscient and thus will always be in error and create problems and difficulties. Thus individual actions may be ethical while political ones are not; primarily because political action is a form of displacement power drive and permits evil, unmoral acts under the guise of depersonalization. "Political ethics is indeed the ethics of doing evil."—R. A. Littman.

4554. Porterfield, Austin L. (Texas Christian U., Ft. Worth.) New and old themes in the folkways of the family. *Marriage Fam. Living*, 1947, 9, 25-29.—The main themes regulating the family behaviors of a majority of the 613 persons covered in this questionnaire study are: "(1) A couple should be married with the firm intention of staying married for life. (2) A couple of sound body and mind should have as many children as, or no more children than, they can properly shelter, nourish, clothe, and send through college; or at the very least, through high school. (3) Neither large nor small families of children are to be desired. (4) Birth control is justifiable only as planned parenthood. Planned parenthood is right, but only planned parenthood is. (5) A couple is justified in getting a divorce only after they have made long and earnest attempts to adjust their differences. (6) Divorce without children is easier to justify than divorce with children."—L. H. McCabe.

4555. Schär, H. Die Bedeutung der Religionspsychologie. (The significance of the psychology of religion.) *Schweiz. Z. Psychol. Anwend.*, 1943, 2, 175-185, 255-265.—Theological knowledge of religion should be utilized in psychology of religion, just as the theologian should be informed about the latter.—K. F. Muenzinger.

4556. Zipf, George Kingsley. (Harvard U., Cambridge, Mass.) The frequency and diversity of business establishments and personal occupations: a study of social stereotypes and cultural roles. *J. Psychol.*, 1947, 24, 139-148.—The total number of personal and business service establishments, manufactures, and retail stores in communities are directly proportionate to the size of the population when multiplied by a constant. The diversity of these classes of business enterprises is directly proportionate to the square root of the population size of the community. The rank-frequency distributions of the kinds of business enterprises are rectilinear, with shifts of the origin. The number of classes of occupations of like number of members is inversely proportionate to the square of the membership. 13 references.—M. Mercer.

SOCIAL ACTION

4557. Bondy, Curt. (Richmond Professional Inst., Richmond, Va.) Education to clear thinking and greater consciousness as part of the re-educational program in Germany. *Amer. Psychologist*, 1947, 2, 318.—Abstract.

4558. Browne, C. G. (Ohio State U., Columbus.) The occupational classification of Federal relief clients and its relationship to educational level, age, and race. *Amer. Psychologist*, 1947, 2, 321-322.—Abstract.

4559. Bühler, Charlotte. (4759 S. Hollywood Blvd., Los Angeles, Calif.) The problem of German re-education. *Amer. Psychologist*, 1947, 2, 318.—Abstract.

4560. Citron, Abraham F., & Harding, John. (Commission on Community Interrelations of the

American-Jewish Congress, New York.) An experiment in training groups of people to answer anti-minority remarks in an effective fashion. *Amer. Psychologist*, 1947, 2, 318-319.—Abstract.

4561. Cooper, Clara Chassell. (Wilson Coll., Chambersburg, Pa.) A psychological handbook for diplomats: proposal and plan. *Amer. Psychologist*, 1947, 2, 280.—Abstract.

4562. Cousins, Norman. The obsolescence of modern man. In Bryson, L., *Approaches to group understanding* (see 21: 4510). Pp. 357-368.—Man today is struggling with fear of the new forces he has unleashed. It is necessary then to determine whether war and combat is intrinsic in man's nature or is conditioned by experience. Following J. Huxley, the author considers war as an expression rather than a reflection of human nature. Thus, as conditions change, the expression changes. Man is therefore capable of change and he must now will to change his behavior and its conditions. The solution proposed is a transformation of economic and political action from a national to a world wide basis. As we are presently organized the atom bomb is a condition, not an inhibitor of war. Only a world government can provide the conditions for eliminating fear and distrust. The world government must beware of statism and regard its function as primarily to preserve freedom and security. The only other way to avoid destruction is to obliterate modern civilization and revert to a savage untechnical way of life.—R. A. Littman.

4563. Fensterheim, Herbert, & Birch, Herbert G. (New York U.) The influence of group ideology on individual behavior. *Amer. Psychologist*, 1947, 2, 317.—Abstract.

4564. Irving, John A. (U. Toronto, Canada.) Psychological aspects of the Social Credit movement in Alberta. Part II. The response of the people. *Canad. J. Psychol.*, 1947, 1, 75-86.—The response of the people of Alberta to the Social Credit movement is analyzed in terms of its philosophy, its leader, and the characteristics of its organization. The already existing distrust of Eastern Canada and its institutions, the groundwork laid by the United Farmers, and the positive promise of financial rehabilitation could be adapted so that all segments of the population would be attracted. The personal appeal of William Aberhart, built up through his religious activities, was reflected in the acceptance of the doctrine by some as soon as he propounded it. Finally, the unselfish and active participation of the members of the movement, and the "primitive comradeship" which they received from the group, led to an almost hypnotic power (see 21: 3194).—F. W. Finger.

4565. Kay, Lillian Wald. (New York U.) An experimental approach to prestige suggestion. *J. Psychol.*, 1947, 24, 71-82.—With increasing frequency people who have achieved success in one field are attempting to influence thought in other fields where they have little claim to expertness. In order to explore the problem of prestige suggestion

an investigation was made of Frank Sinatra's campaign to change attitudes of adolescents. Subjects were 33 girls and 21 boys, all members of the YM and YWHA of New York City. The problem was studied in 2 sociodramatic sessions held a week apart. It was concluded that it is not possible to transfer acceptability in one role to another role unless the roles have something in common. 19 references.—*M. Mercer.*

4566. Lee, Alfred McClung. (Wayne U., Detroit, Mich.) Propaganda techniques of religious groups. *Amer. Psychologist*, 1947, 2, 280.—Abstract.

4567. Maslow, A. H. Liberal leadership and personality. *Freedom*, 1942, 2, 27-30.—A large number of those who seek leadership do so out of neurotic power drive, i.e., for their own good rather than the good of the community. Those who would be motivated primarily by the good of the community are less apt to seek power and must be sought out and solicited. A solution to this paradox would be to choose our leaders instead of having them choose themselves.—(Author abstract.)

4568. Sherif, Muzafer. The necessity of considering current issues as part and parcel of persistent major problems. *Amer. Psychologist*, 1947, 2, 280.—Abstract.

CRIME AND DELINQUENCY

4569. Arce, Dolores Luisa. Delincuencia juvenil. (Juvenile delinquency.) *Criminalia, Méx.*, 1946, 12, 489-500.—Preventive measures against juvenile delinquency are: fight against ignorance together with fanaticism and prejudice; fight against misery; and technical, economic, and administrative reorganization of existing agencies. Housing reform and free recreation centers together with radio and movie control within a wide educational campaign would serve as prophylactic measures.—*J. H. Bunzel.*

4570. Bach, George R. (Kent State U., Kent, O.), & Bremer, Gloria. Projective father fantasies of preadolescent, delinquent children. *J. Psychol.*, 1947, 24, 3-17.—The father fantasies of a group of prepsychopathic, delinquent children aged 7 to 10 are compared with the father fantasies of a control group of normally adjusted children. A standardized projective doll play method is employed and described. Results show significant differences in the father fantasies of the 2 groups. The delinquent shows emotional indifference to the father and weak anticipation of punishment. 19 references.—*M. Mercer.*

4571. Chávez, Leopoldo, & Quiroz Cuarón, Alfonso. Medidas profilácticas de delincuencia en materias migratoria y de sanidad internacional. (Prophylactic measures with regard to delinquency of migrants and international sanitation.) *Criminalia, Méx.*, 1946, 12, 476-488.—After describing the determinism of migratory movements and giving experimental data the authors proceed to show that immigration augments criminality. The United States, France, and Argentina serve as comparative

examples. They quote heavily from Murchison in discussing intelligence, and dangerousness of foreign criminals. Preventive measures by immigration authorities are suggested. The proposal is made that the Pan American Union establish a system of identification and an inter-continental information-exchange relative to criminality and migration.—*J. H. Bunzel.*

4572. Corsini, Raymond J. A note towards an experimental penology. *Prison World*, 1945, 7, 5; 12-passim.—At the present time penology is science in name only although it logically belongs in the social sciences combining sociology and psychology. Uncontrolled facts have been recorded but real progress depends on comprehensive experimental assaults on vital questions. There are 4 important reasons that militate against experiments in this field: lack of interest, expense, public reaction, and legal aspects. Each of these 4 can be met. The methodology of penal experimentation should involve the selection of a clear-cut issue, such as differential rehabilitation of inmates, the devising of satisfactory criteria, the rigid control of an experiment to prevent a long-range program from changing, and evaluation. The reclamation of felons is a humanitarian task and may depend on courageous experimentation.—(Author abstract.)

4573. Dickmeiss, P. (State Mental Hospital, Augustenborg, Denmark.) On female criminality during the climacteric. *Acta psychiat., Kbh.*, 1946, 21, 217-231.—Case reports of criminal behavior in women during the menopausal period. The cases may be divided into types: (1) Those in which the women had led an essentially normal life before the occurrence of the delinquencies (often of a kleptomanic type); (2) those in which the delinquencies occurring during the menopausal period were mere continuations of a long-standing criminality.—*A. L. Benton.*

4574. Fremming, Kurt H. Criminal frequency in a Danish rural area. *Acta psychiat., Kbh.*, 1946, 21, 257-274.—An investigation of the frequency and nature of criminal acts in the life histories of 4130 individuals, who were 52-56 years of age at the time of the investigation.—*A. L. Benton.*

4575. Garrido, Luis. Delito y psique. (Crime and psyche.) *Criminalia, Méx.*, 1946, 12, 462-465.—This is a somewhat extensive abstract of Professor Abrahamsen's book of the same title (see 19: 748). It mentions his tri-partite classification of criminological philosophy: penology proper, scientific study of prisons, and statistical study of criminals as to number and residence. Crime is considered a personality problem.—*J. H. Bunzel.*

4576. Houtchens, H. Max, & Betts, Gilbert L. Word portraits of Army prisoners. *Amer. Psychologist*, 1947, 2, 327.—Abstract.

4577. Hurwitz, Stephan. (U. Copenhagen, Denmark.) Criminality and pathology. *Acta psychiat., Kbh.*, 1946, 21, 375-377.—The view that crime is determined by psychopathological factors and should therefore be considered as a manifestation of disease

is examined and it is concluded that the psychopathological point of view has only a limited application to the problem of crime.—*A. L. Benton.*

4578. Kielholz, A. Erkennen der physischen, geistigen und moralischen Anlagen der Sträflinge. (Knowledge of the physical, mental and moral dispositions of convicts.) *Gesundh. u. Wohlf.*, 1945, 25, 51-66.—Effort is made here to systematize various recent insights relating to the psychology of prisoners. Studies of body types, endocrinological factors, intelligence, affectivity, reactions to imprisonment, criminal psychopathy, compulsion to confession, feeling of guilt, and need for punishment are topics presented. Reactions to imprisonment take normally the form of dreams of being freed, of inventing, of artistic work, of religiosity, and pathologically the form of hypochondria, delusions of persecution.—*F. C. Sumner.*

4579. Pearce, J. D. W. (*Institute for Scientific Treatment of Delinquency, London.*) The treatment of juvenile delinquency. *Med. Pr.*, 1947, 217, 111-114.—While in each case of juvenile delinquency there is a constellation of causal factors, there is a dominant factor in each constellation, according to which the author classifies cases of juvenile delinquency into (1) the mentally deficient; (2) the defective in temperamental stability; (3) the environmental; (4) the organic; (5) the reaction-formation; (6) the psychoneurotic; (7) the psychotic. The methods of treatment are: correction of the various deficiencies in the environment; provision for unalterable defects in the individual; treatment of remediable defects; the solution of emotional problems; stabilization and promotion of character development. There is no rule of thumb treatment. Each case requires its own management.—*F. C. Sumner.*

ART AND AESTHETICS

4580. Nahm, Milton C. (*Bryn Mawr Coll., Pa.*) Art as one of the bridges of cultural understanding. In Bryson, L., *Approaches to group understanding* (see 21: 4510). Pp. 375-388.—Art is a permanent record of symbols and as such is a form of communication. It can, therefore, contribute to inter-group understanding although when it does it is functioning in a non-aesthetic manner. Intelligibility of art products rests upon "feeling as reproductive imagination" and this in turn is based upon the common background of artist and spectator. In creating the artist attaches his feelings to symbols whose frame of reference extends to many other individuals. Thus in attempting to understand "alien" products one must search for cognate signs within a familiar culture. The result of this is to equate feelings on an inter-cultural basis and thus increase understanding.—*R. A. Littman.*

4581. Wyatt, Frederick. Analysis of a popular novel. (Case study of a collective day-dream.) *Amer. Psychologist*, 1947, 2, 280-281.—Abstract.

[See also abstracts 4196, 4197, 4203, 4330, 4375, 4393, 4394, 4409, 4417, 4420, 4603, 4631, 4643.]

PERSONNEL PSYCHOLOGY

4582. Anderson, Mary Kay. Women's wartime hours of work; the effect on their factory performance and home life. *U. S. Women's Bureau Bulletin*, No. 208, 1947. Pp. x + 187. 35c.—The factory performance of 3,261 women was reviewed under different scheduled hours. The women were employed in selected occupations in 13 plants. To determine the effect of different hour schedules on their home and personal life and to get information to help interpret the production data secured in the plant 566 of these women were interviewed in their homes. The data are presented by plant with a summary of the findings. The major topics considered for each plant are: description of the working hours and conditions, effect of different hour schedules on workers' home life, workers' preferred factory hours, effect of different hour schedules on workers' factory performance. 40% of the women preferred the 8-hour day and 40-hour week, the workers on this schedule had the best attendance record of those studied. "In no occupation did the efficiency of these women (all with one or more years experience) vary widely under the different scheduled hours studied . . . the degree of 'increase' or 'decrease' in efficiency was often so slight that it had little relation to hours worked."—*C. P. Froehlich.*

4583. Backstrom, Oscar, Jr., & Viteles, Morris S. An analysis of graphic records of pilot performance obtained by means of the R-S Ride Recorder. Part II. Quantitative evaluation of pilot performance on 720° power turns. (CAA Div. Res. Rep. No. 55, 1946; Publ. Bd. No. 50326.) Washington, D. C.: U. S. Dep. Commerce, 1947. Pp. 87. \$2.00, microfilm; \$6.00, photostat.—This report presents a detailed discussion of quantitative technique used in the evaluation of graphic records of flight performance secured by means of the R-S Ride Recorder. The primary objectives were to: (1) determine the suitability of quantitative indices, derived from R-S Ride Recorder records, in differentiating the skill in executing 720° power turns of pilots with wide differences in number of hours of flying experience; (2) apply these indices to the investigation of intra-group differences in performance and in slipping and skidding on both left and right turns, and reliability of indices computed from records of flights flown in immediate succession; and (3) investigate the utility of cutting scores applied to such indices in identifying levels of pilot experience, with a view to the ultimate use of such indices as predictors of pilot performance. Appendices present the following: (A) Accuracy of measurement; (B) Difficulties encountered in computing the quantitative indices; (C) Sample quantitative raw data sheet used in recording measurements of R-S Ride Recorder records of power turns, and exposition of raw data sheet; and (D) Possible explanation of the right-wing-low tendency noted in the groups of subjects.—(Courtesy *Bibl. scient. industr. Rep.*, U. S. Dep. Commerce.)

4584. Baier, Donald E. (*Personnel Research Section, AGO, Washington, D.C.*) Selection and evaluation

tion of West Point cadets. *Amer. Psychologist*, 1947, 2, 325-326.—Abstract.

4585. Bellows, Roger M., & Scholl, Charles E., Jr. (Wayne U., Detroit, Mich.) Development and evaluation of methods for personnel turnover control. *Amer. Psychologist*, 1947, 2, 338.—Abstract.

4586. Brandt, Hyman. (Personnel Research & Procedures Branch, AGO, Washington, D.C.) How effective are subject matter specialists in technical test construction? *Amer. Psychologist*, 1947, 2, 311.—Abstract.

4587. Burton, Claude E., & Spence, Kenneth W. An appraisal of certain tests of pilot aptitude. (CAA Div. Res. Rep. No. 64, 1946; Publ. Bd. No. 50335.) Washington, D. C.: U. S. Dep. Commerce, 1947. Pp. 126. \$3.00, microfilm; \$9.00, photostat.—This study was concerned with the investigation of the relationship among four psychomotor tests and certain pencil-and-paper tests of perceptual motor ability, as well with evaluation of these instruments as predictors of flight success. Groups A and B studied, successively consisted of 90 and 63 subjects. Group C, consisting of 56 subjects, was treated separately. All were in the elementary stage of flight training. For three of the psychomotor tests (rotary pursuit, serial coordination, and division-of-attention tests) split-half reliabilities of .90 or better were reached early in the test period. In the cases of the two-hand coordination test the split-half reliability coefficient based on the full length test of 30 trials was no higher than .73. Correlations between pencil-and-paper tests and total scores on the psychomotor tests were found to be low and, in general, positive. Appendices present the following: (A) Supplementary data, Group C, and comparisons with data of Groups A and B; (B) Procedures for administration of the psychomotor tests; (C) Sample page from logbook; (D) The relationship between flight criteria and rate of fitted learning curves; and (E) tables of data.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce.*)

4588. California Council of Personnel Management. Survey of personnel testing practices. *Mgmt. Rev.*, 1947, 36, 81-82.—Data from a field check of the use of tests by 45 organizations are reported. Tests were found most widely used in clerical fields, but were reported in other areas. Various companies used tests for employment, filling positions including supervisory, promotion, and selecting apprentices. 65% report better predictions of success based on test results; 49% more productive employees; 20% reduced labor turnover; 20% (plus 7% possibly) less labor trouble; 16% lower accident rate; while 40% indicated insufficient experience to report in these categories. The majority of the firms had installed, administered, scored and interpreted their own testing programs. Standard tests are used by 71%, and self-developed tests by 53%.—(Rewritten: courtesy *Publ. Personnel Rev.*)

4589. Covner, Bernard J. (The Berger Brothers Company and Wesleyan U.) Resistance to psycho-

logical programs in industrial organizations. *Amer. Psychologist*, 1947, 2, 338.—Abstract.

4590. FitzGerald, W. J. Psycho-visual testing of motor vehicle operators. *Optom. Wkly*, 1947, 38, 981-984.—The importance of visual acuity, dark adaptation, field of vision, reaction time, color vision, depth perception, and steadiness in the safe operation of motor vehicles is emphasized.—D. J. Shaad.

4591. Hausman, Howard J. An evaluation of instrument flying training records as criteria of pilot proficiency. *Amer. Psychologist*, 1947, 2, 326.—Abstract.

4592. Humes, John F. (U. Illinois, Urbana.) The use and results of instructional demonstrations for supervisory training groups. *Amer. Psychologist*, 1947, 2, 338-339.—Abstract.

4593. Hutchinson, D. F. (Wallington, Surrey, England.) Social factors in industrial personnel management. *Personnel J.*, 1947, 26, 62-67.—Personnel management should avoid becoming so concerned with methods and statistics that they forget their fundamental objectives. Seven broad objectives and means for achieving them are proposed. These include making the most effective use of available manpower and promoting the idea among both employers and employees that industry exists only to serve the community.—M. B. Mitchell.

4594. Lane, Kimie Kawahara, & Ogata, Caroline. (U. Hawaii, Honolulu.) Change of attitudes among plantation workers. *Social process in Hawaii*, 1945, 9, 93-97.—Historically, the heterogeneity of the Hawaiian population is due to the importation of agricultural workers from all over the world to handle the principle crops, sugar and pineapple. Paternalism and segregation were the two major techniques by which the immigrant laborers were controlled. Recently, intensive efforts at unionization has both caused and been caused by the increasing restiveness of the Hawaiian worker. The war emergency has helped reduce owner-resistance to social reform and unionization. The youngest generation was the first to manifest aggressiveness, and affiliation with a union group (C.I.O.) has resulted in less paternalism and "a more impersonal industrial Labor-Management relationship."—R. A. Littman.

4595. Lawshe, C. H. (Purdue U., Lafayette, Ind.) The reliability of two job evaluation systems. *Amer. Psychologist*, 1947, 2, 339.—Abstract.

4596. McMurry, Robert N. How efficient are your hiring methods? *Personnel J.*, 1947, 26, 45-53.—A well balanced selection program uses at least 2 of the 3 following procedures: (1) application blank, (2) employment tests, (3) the interview. To be effective, the procedures must be tailored for the specific company. This involves validating tests for specific jobs.—M. B. Mitchell.

4597. Mahler, Walter R. (Columbia U., New York.) Some common errors in employee merit rating practices. *Personnel J.*, 1947, 26, 68-74.—A survey of current practices in employee rating in 125 companies revealed that most of them use a

scale method. There were a total of 131 different traits listed on these scales. Individual scales used from 1 to 33 traits which were often poorly defined and overlapping. The number of degrees for rating each trait ranged from 3 to 16 with the mode at 5. Some companies had separate scales for production workers, clerical and non-supervisory employees, and supervisory employees, but too many had general scales used for all types of employees.—*M. B. Mitchell.*

4598. **Mold, Howard P.** *Outline of a complete training program.* *Personnel J.*, 1947, 26, 75-79.—In large organizations, specific training programs are needed and should be planned for special groups in order to improve human relations, morale, and efficiency. The training courses will vary with the groups involved. Training should be provided for all types of employees from the newest production worker (who should have an orientation course) to junior executives and executives (who might be given 15 to 20 subjects). Engineers, who frequently become top executives, not only need training which will keep them informed of the latest scientific developments, but also courses in psychology, cost accounting, labor law and employee supervision. In companies where the employees for the personnel department are recruited from the ranks, they need continuous in-service training. In addition, specialized departmental training, preformanship, and foreman training are needed.—*M. B. Mitchell.*

4599. **Moore, Herbert.** (1304 Canada Permanent Bldg., Toronto, Canada.) *Current tests in industry.* *Amer. Psychologist*, 1947, 2, 321.—Abstract.

4600. **Orleans, Jacob S.** (Command and General Staff Coll., Fort Leavenworth, Kans.) *An inventory of prerequisite military knowledge.* *Milit. Rev., Ft. Leavenworth*, 1947, 27, No. 4, 37-42.—In an effort to appraise students entering the Command and General Staff College with regard to their prerequisite knowledge of certain military subjects, the author prepared an objective test suitable for providing this information. From this Inventory Test it is hoped that (a) students requiring correction of deficiencies in their knowledge of prerequisite subjects may be provided the necessary assistance; (b) instructors may learn in advance the areas of their instruction that need extension and emphasis to overcome deficiencies in the students' backgrounds, and (c) prediction of success in the academic course may result. It seems likely that the present test will be made more effective with further experimentation. It is also likely that such inventories will prove helpful not only in the instructional situation but ultimately in the selection of officers qualified to go to this postgraduate military school.—*M. A. Seidenfeld.*

4601. **Page, Howard E.** (Naval Air Station, Pensacola, Fla.) *A cumulative record of naval aviator proficiency.* *Amer. Psychologist*, 1947, 2, 326-327.—Abstract.

4602. **Richardson, Marion W.** (Richardson, Bel-lows, Henry & Co., New York.) *A morale study*

in a typical manufacturing concern. *Amer. Psychologist*, 1947, 2, 343.—Abstract.

4603. **U. S. Military Academy, West Point.** *Department of Military Psychology and Leadership. A syllabus for psychology of military leadership.* West Point, N. Y.: Headquarters, United States Corps of Cadets, 1947. Pp. 120.—(Printed at the Academy for private use.) This is the outline, partly topical and partly in the form of a brief, of the material given to the First Class (senior) Cadets in the Academy's first course on the Psychology of Military Leadership. The working definition of leadership as "the art of causing others to be voluntarily and effectively productive" is used. The first half of the syllabus covers the psychological part of the course, the bulk of this being concerned with individual psychology (including motivation and adjustment) and the balance with collective behavior, and psychological warfare and propaganda. The latter half is devoted to an elaboration of 14 "Maxims of leadership" such as "Know Your Men," "Build Responsibility," "Keep Your Men in the Know," and "Develop an Organization Spirit." Under these "maxims" are developed the various responsibilities of the junior officer. Certain I and E material is used freely for illustrative purposes.—*T. E. Newland.*

4604. **U. S. War Dept., Office of the Secretary, Civilian Personnel Division.** *Examining personnel for civilian employment.* (Four film strips with recorded narration. 15 minutes each. Available through loan.)—Presents the problem of selecting good workers. Describes the pattern of procedures developed in the Research Section of the Civilian Personnel Division, Office of the Secretary of War, with the approval of the U. S. Civil Service Commission, for making such selections for a wide range of positions. The first 3 film strips and the narration deal with the preparation of an actual examination for a particular job, and describes in detail the analysis of the job to be filled, the determination of essential personal characteristics for doing the work, and the development, administration, and validation of the examination. The fourth film strip describes in general terms the use of such examining techniques as the biographical information blank, oral examination, standard interview, written and performance tests (both aptitude and proficiency), and reference schedules. It shows their applicability to different types of jobs.—(Courtesy Office of the Secretary of War.)

4605. **Vernier, C. M., Criswell, J. H., & Howell, M. V.** *Use of a specialized interview technique for the collection of criteria data.* *Amer. Psychologist*, 1947, 2, 351.—Abstract.

4606. **Williams, A. C., Jr., et al.** *Preliminary experimental investigations of tension as a determinant of performance in flight training.* (CAA Div. of Res. Rep. No. 54, 1946; Publ. Bd. No. L 50325.) Washington, D. C.: U. S. Dep. Commerce, 1947. Pp. 46. \$1.00, microfilm; \$4.00, photostat.—The findings in this report describe the outcomes of re-

search designed to determine the effects of tension on learning to fly. These studies are divided into 4 experimental phases, covering a period of more than 3 years. Grip tension was recorded by means of a modified Friez flight analyzer. A subsidiary project involving a further analysis of records obtained from the Friez flight analyzers is presented in appendix A.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce.*)

4607. Wyrach, J. *Psychopathen im Militärdienst.* (Psychopaths in the military service.) *Gesundh. u. Wohlf.*, 1946, 26, 456-463.—The majority of psychopaths in the Swiss army are in the auxiliary services. Some are unsuited for any branch of the Army and would do better in civil life where there is far greater freedom; some would make better adjustment in combat services where their egotism may find a measure of satisfaction; others are best suited for the auxiliary services provided they are properly placed. Psychopaths should not be lumped together but rather should be individually placed according to their individual peculiarity.—F. C. Sumner.

VOCATIONAL GUIDANCE

4608. Balmaceda de Joséfé, Esperanza. *Importancia de la orientación profesional para los países de America.* (The importance of vocational guidance for the countries of America.) *Rev. Inst. nac. Pedag., Méx.*, 1947, 1, 59-74.—The importance of vocational guidance has been recognized by the establishment of a section in the National Institute of Pedagogy for the study of the problem. Recommendations are made in favor of such an establishment in order to (1) develop to the fullest both the human and natural resources, (2) promote industrial development, (3) encourage and direct the work through organization, (4) aid the rural as well as the urban population, (5) stimulate the schools in this work, and (6) organize an Inter-American Committee to study the problems.—E. R. Oswald.

4609. Bennett, George K. (*Psychological Corp., New York.*) The evaluation of pairs of tests for guidance use. *Amer. Psychologist*, 1947, 2, 287.—Abstract.

4610. Bordin, Edward S. (*State Coll., Pullman, Wash.*) Relative correspondence of professed interests to Kuder and Strong interest test scores. *Amer. Psychologist*, 1947, 2, 293.—Abstract.

4611. Moore, Joseph E. (*Georgia Sch. Technology, Atlanta.*) A comparison of the Moore eye-hand coordination and color matching test with other dexterity tests. *Amer. Psychologist*, 1947, 2, 297-298.—Abstract.

4612. Speer, George S. (*Illinois Institute of Technology, Chicago.*) The vocational interests of engineering and non-engineering students. *Amer. Psychologist*, 1947, 2, 341-342.—Abstract.

4613. Triggs, Frances Oralind. A study of the relationship of measured interests to measured mechanical aptitude, personality, and vocabulary. *Amer. Psychologist*, 1947, 2, 296-297.—Abstract.

4614. Trowbridge, Lowell S. (*Boston U., Mass.*) "Counseling" agencies in greater Boston. *Amer. Psychologist*, 1947, 2, 322.—Abstract.

4615. Tuckman, Jacob. *Social status of occupations in Canada.* *Canad. J. Psychol.*, 1947, 1, 71-74.—Following the method used in 2 studies made in the U. S., 410 individuals were asked to rank 25 occupations in their order of social status. The correlation between the rankings in the 2 countries was approximately .97, with a discrepancy of more than 2 ranks appearing for only 4 occupations. Inasmuch as high ranking and therefore much sought-after occupations (physician, lawyer, engineer, banker, school superintendent) require considerable general ability and training, an adequate vocational guidance program must "assist youth in formulating occupational goals which are more consistent with their real abilities and interests. . . ."—F. W. Finger.

[See also abstracts 4211, 4225, 4226, 4392, 4500, 4514, 4517, 4556, 4558, 4576, 4650, 4665, 4666, 4668.]

INDUSTRIAL AND BUSINESS PSYCHOLOGY

4616. Chapanis, Alphonse. (*Johns Hopkins U., Baltimore, Md.*) Accuracy of interpolation between scale markers as a function of scale interval number. *Amer. Psychologist*, 1947, 2, 346.—Abstract.

4617. Chapanis, Alphonse. Summary and evaluation of the status of research on the effect of the optical quality of transparent aircraft panels on vision. (AAF AMC Engng Div. Memo. Rep. No. TSEAA-696-93, 1946; Publ. Bd. No. L 60607.) Washington, D. C.: U. S. Dep. Commerce, 1947. Pp. 15. \$1.00, microfilm; \$1.00, photostat.—The studies summarized here emphasize the fact that the angle of incidence of the panel to the pilot's line of sight is relatively more important than the inherent flaws or defects in the panel. The report points out that this means, in effect, that panels with extremely few inherent defects become objectionable when they are used at high angles of incidence. Appendix 1 presents a digest of typical unsatisfactory reports from flying personnel about distortion in transparent aircraft panels. Appendix 2 presents revision of visual requirements for the handbook of instruction for airplane designers, accompanied by tables. Appendix 3 presents bibliography of research reports relating to the optical quality of transparent aircraft panels.—(Courtesy *Bibl. scient. industr. Rep., U. S. Dep. Commerce.*)

4618. Chapanis, Alphonse, & Schachter, Stanley. Depth perception through a P-80 canopy and through distorted glass. (AAF ATSC Engng Div. Memo. Rep. No. TSEAL3-695-48N, 1945; Publ. Bd. No. L 60611.) Washington, D. C.: U. S. Dep. Commerce, 1947. Pp. 15. \$1.00, microfilm; \$1.00, photostat.—This study extended the investigation by the Aero Medical Laboratory of the distortion in aircraft glass and its effect on depth perception (see Publ. Bd. No. 60612) to include measurements on

actual samples of aircraft glass in proper position. It was concluded that depth perception, as measured by the Howard-Dolman apparatus, is impaired in scanning through the forward section of a P-80 canopy, and that the impairment is greater through the two curved plastic panels than through the bullet-resistant glass. It was also concluded that large angles of incidence impair depth perception less if the glass is tilted back (or forwards), i.e., around a horizontal axis, rather than sideways around a vertical axis. This is consistent with the further finding that the main effect of distortion is on the binocular cues of depth perception. A full description of the apparatus, procedures and results of distortion in the P-80 canopy on depth perception are given in appendix 1.—(Courtesy *Bibl. scient. industr. Rep.*, U. S. Dep. Commerce.)

4619. Chapanis, Alphonse, & Schachter, Stanley. Visual effectiveness of low reflectance coating applied to transparent areas of aircraft. (AAF ATSC Engng Div. Memo. Rep. No. TSEAL3-695-62, 1945; Publ. Bd. No. L 60610.) Washington, D. C.: U. S. Dep. Commerce, 1947. Pp. 24. \$1.00, microfilm; \$2.00, photostat.—The purpose of this report is to present data showing the effect on night vision of the haze and reflectance properties of surface coatings applied to transparent areas of aircraft. Details of experiments are given in Appendices I and II. A review and critique of related researches on the visual effectiveness of surface coatings is presented in Appendix III. Conclusions were: (1) Diffuse reflectance produced by haze up to a value of 1.5% does not impair night vision; (2) surface coatings do not reduce specular reflections enough to improve night vision as measured by any of the tests used.—(Courtesy *Bibl. scient. industr. Rep.*, U. S. Dep. Commerce.)

4620. Christensen, Julien M. (Aero Medical Laboratory, Wright Field, O.) An analysis of scale reading errors. *Amer. Psychologist*, 1947, 2, 346.—Abstract.

4621. Crook, Mason N., Hoffman, Arthur C., & Wessell, Nils Y. (Tufts Coll., Medford, Mass.) Effect of vibration on legibility of numerical material. *Amer. Psychologist*, 1947, 2, 347-348.—Abstract.

4622. Davis, D. Russell. German applied psychology. (BIOS Final Rep. No. 970, Item 24, 28, 1946; Publ. Bd. No. L 63616.) Washington, D. C.: U. S. Dep. Commerce, 1947. Pp. 21. \$1.00, microfilm; \$2.00, photostat.—This report comprises a number of annotations on topics about which the author was able to obtain information during short visits to Germany in April and August, 1946. Little was learned about psychology in the German navy. The sections in the report dealing with training methods and the design of equipment are scanty, probably mainly due to the fact that the official psychological laboratories in the armed forces almost entirely neglected the problems in these fields. The names of those who were interrogated are given in appendix A. List of documents (other than publications) evacuated is given in appendix B. These

documents have been filed with: Board of Trade, German Div. (Documents Unit), Lansdowne House, Berkeley Square, W.I., London. Some recent German books of interest to psychologists are listed in appendix C.—(Courtesy *Bibl. scient. industr. Rep.*, U. S. Dep. Commerce.)

4623. Elson, D. G., Hill, Harris, & Gray, Florence. (Indiana U., Bloomington.) Wave length and amplitude characteristics of tracking error curves. *Amer. Psychologist*, 1947, 2, 339-340.—Abstract.

4624. Fayer, Martha. Methoden der Reklame-psychologie. (Methods of the psychology of advertising.) *Schweis. Z. Psychol. Anwend.*, 1943, 2, 49-64.—A survey of certain types of studies on the effectiveness of advertising.—K. F. Muenzinger.

4625. Fitts, Paul M. (Aero Medical Laboratory, Wright Field, O.) A study of proprioceptive location discrimination as indicated by arm-hand positioning reactions. *Amer. Psychologist*, 1947, 2, 341.—Abstract.

4626. Grether, Walter F. (Aero Medical Laboratory, Wright Field, O.) A study of several design factors influencing human efficiency in hand and foot operation of controls. *Amer. Psychologist*, 1947, 2, 340.—Abstract.

4627. Henneman, Richard H., & Mitchell, Philip H. A critical examination of the concept of "accident-proneness" as applied to aircraft pilots. *Amer. Psychologist*, 1947, 2, 302.—Abstract.

4628. Kaplon, Martin D. (Hyattsville, Md.) The observational method in radio audience measurement. *Amer. Psychologist*, 1947, 2, 335.—Abstract.

4629. Kornhauser, Arthur. (Columbia U., New York.) Industrial psychology as management technique and as social science. *Amer. Psychologist*, 1947, 2, 224-229.—Industrial psychological research has generally been oriented with respect to the interests of management. As a consequence certain areas are not open to research. There is a need for a social approach to industrial psychological problems by psychologists searching for solutions to basic problems. Several approaches of this nature have been made but they are only indications of what might be accomplished if psychologists would turn their efforts to a study of such problems. A promising and valuable type of research which has been almost completely ignored is the broad-gauge attitude and opinion studies bearing on labor relations. There are many urgent questions which such studies would answer.—L. J. Timm.

4630. Loucks, Roger Brown. (U. Washington, Seattle.) Evaluation of aircraft attitude indicators on the basis of Link trainer performance. *Amer. Psychologist*, 1947, 2, 345.—Abstract.

4631. Moore, Wilbert E. (Princeton U., N. J.) Industrial relations and the social order. New York: Macmillan, 1946. Pp. xii + 555.—Rarely has the complex social organization and pattern of relations of modern industry been considered. In the few cases that such a view has been taken the "internal" structure of industry has not been set within the

society with which it is in constant interaction. This book presents both the internal relations within industrial organizations and the external relations of industry to society. The organization reflects these 2 major aspects of the social characteristics of industry. Parts 3, 4, and 5 deal with the various internal aspects of industrial organization and industrial relations. Parts 2 and 6 are concerned with industry and society, the former tracing the social historical and cultural setting, the latter the dynamic, or functional, relationships between industrial production and other aspects of social organization.—C. E. Scholl, Jr.

4632. Starch, Daniel. (*Daniel Starch & Staff, New York.*) The buyometer: a new technique for measuring buying resulting from reading of advertisements. *Amer. Psychologist*, 1947, 2, 321.—Abstract.

4633. Taylor, Franklin V. (*Naval Research Laboratory, Washington, D.C.*) A study of the acceleration pattern of manual corrective responses. *Amer. Psychologist*, 1947, 2, 340.—Abstract.

4634. Van Saun, H. Richard. (*Aero Medical Laboratory, Wright Field, O.*) An initial study of principles related to aircrew workplace layout. *Amer. Psychologist*, 1947, 2, 332.—Abstract.

4635. Warrick, Melvin J. Direction of motion preferences in positioning visual indicators by means of control knobs. *Amer. Psychologist*, 1947, 2, 345-346.—Abstract.

4636. Williams, A. C., Jr. (*U. Illinois, Urbana.*), & Grether, Walter F. Legibility of instrument dials as a function of dial diameter and the spacing of scale division. *Amer. Psychologist*, 1947, 2, 348.—Abstract.

4637. Williams, Stanley B. (*Johns Hopkins U., Baltimore, Md.*) The effect of certain illumination variables on the visibility of signals on cathode ray screens. *Amer. Psychologist*, 1947, 2, 347.—Abstract.

[See also abstract 4278.]

EDUCATIONAL PSYCHOLOGY

4638. Amatora, Sister Mary. (*St. Francis Coll.*) Some elements in teachers' and pupils' personalities. *Amer. Psychologist*, 1947, 2, 268.—Abstract.

4639. Bear, Robert M. The development of diagnostic tools to further remedial instruction. *Amer. Psychologist*, 1947, 2, 291-292.—Abstract.

4640. Bernreuter, Robert G. (*Pennsylvania State Coll.*) Differential prediction of scholastic success. *Amer. Psychologist*, 1947, 2, 301.—Abstract.

4641. Bowley, Agatha H. (*School Psychological Service, Leicester, England.*) A psychologist looks at educational reconstruction. *Ment. Hlth, Lond.*, 1944, 5, 1-3.—"School psychological services, working under the aegis of the Education Department, and closely cooperating with the school medical services, can render diagnostic, advisory and therapeutic service to children. The school psychological

services can not stop with the deviant child. There is the training of teachers to a better understanding of the growth and psychological needs of the normal child as well as the principles of the learning process. There is also much that the psychological services can contribute to curriculum reorganization."—M. E. Wright.

4642. Clark, Paul E., & Staskiewicz, Bernard A. (*Washington & Jefferson Coll., Washington, Pa.*) Achievements of veterans in general chemistry. *Sch. & Soc.*, 1947, 65, 482-484.—The conclusions of this study are based on 60 cases, of which 52 were veterans, and 8 non-veterans. Average score of the veteran group on the Iowa Placement Examination, Series C T, Revised, was 43.0 percentile on the initial test, and 76.8 percentile on the final test at the end of the first semester. This gain of 33.8 percentile points compares with a gain from 50.4 percentile to 79.6 percentile in the case of the non-veteran group. At the end of the complete course, the veterans made a mean raw score of 92.9 on the Cooperative General Chemistry Test while the non-veterans scored 90.4. Course grades of the veterans compared favorably with those of the non-veterans.—R. C. Strassburger.

4643. Cupps, Rayanne D., & Hayner, Norman S. (*U. Washington, Seattle.*) Dating at the University of Washington. *Marriage Fam. Living*, 1947, 9, 30-31.—In a study of dating problems a 3-page questionnaire was given to a representative sample of students; 182 men and 132 women responded. Results indicated that dating patterns are shaped, to a considerable extent, by such personal factors as sex, age, physical appearance, war experience, and parental happiness; that the differences between dating patterns of men and women have been accentuated by the greater mobility of men during the war; that dating habits can to some extent be influenced by changes in the social situation; and that universities could do much to improve the existing channels for social introduction. Suggestions are given for such improvement.—L. H. McCabe.

4644. Dressel, Paul L. (*Michigan State Coll., East Lansing.*) The performance of special permission students on comprehensive examinations in general education courses. *Amer. Psychologist*, 1947, 2, 266-267.—Abstract.

4645. Dunlop, Florence S. (*Ottawa (Canada) Public School Board.*) Analysis of data obtained from ten years of intelligence testing in the Ottawa public schools. *Canad. J. Psychol.*, 1947, 1, 87-91.—The results of intelligence testing in Grade IV of the public schools of Ottawa are reported for the years 1933-1942. Approximately 12,000 were tested with the National Group Intelligence Test or the Dominion Junior Group Intelligence Tests. The average IQ of the group was 109, with the girls 1 point higher than the boys (critical ratio of 4.2). Pupils born in the summer months had IQ's higher than winter babies, with spring and autumn intermediate in favorability. Boys repeated significantly more grades than did girls, and according to the teachers

put forth less effort in their academic work. Comparing the pupils of 1933, 1934, and 1935 with those of 1938, 1939, and 1940, it was found that the average age in the grade had dropped almost 1 year.—*F. W. Finger.*

4646. Edgerton, Harold A. (Ohio State U., Columbus), Britt, Stuart H., & Norman, Ralph D. Physical differences between ranking and non-ranking adolescent boys in a national search for scientific talent. *Amer. Psychologist*, 1947, 2, 313-314.—Abstract.

4647. Eguiluz López, Benjamin. Resultados y observaciones de los primeros datos de la ficha médico-psicopedagógica aplicados en escolares de los primeros años de la Escuela "Estado de Hidalgo." (Results and observations of the primary data of medico-psychopedagogical examinations applied to pupils in the primary years of the "State of Hidalgo" school.) *Rev. Inst. nac. Pedag., Méx.*, 1947, 1, 38-58.—A detailed report of the examinations, mainly physical, given to children in the primary grades. The author recommends the continuation of such examinations and points out their values to the school and the pupils.—*E. R. Oswald.*

4648. Greene, James E., Findley, Warren G., Couey, Fred, & Stanton, Thomas F. (Air U., Maxwell Field, Ala.) The evaluation of instruction in the Air University. *Amer. Psychologist*, 1947, 2, 281-282.—Abstract.

4649. Hermann, K., & Voldby, H. (Ordblindelinstitutet, Copenhagen.) The morphology of handwriting in congenital word-blindness. *Acta psychiatrica, Kbh.*, 1946, 21, 349-363.—The various distortions of handwriting in children with reading disabilities are described and classified into the following categories: (1) confusion of letters; (2) disfigurement of letters; (3) errors in the combining of letters; (4) mirror-writing; (5) reversals and substitution of printed characters for cursive writing.—*A. L. Benton.*

4650. Kendall, William E., & Hahn, Milton E. (Psychological Services Center, Syracuse U., Syracuse, N. Y.) The use of tests in the selection of medical students by the College of Medicine of Syracuse University. *Amer. Psychologist*, 1947, 2, 297.—Abstract.

4651. Pisculich, Emiliano, & Arroyo, Enriqueta C. (Instituto Psicopedagógico Nacional, Lima, Peru.) La educación de los niños anormales. (The education of abnormal children.) *Supl. Bol. Inst. psicopedag. nac., Lima*, 1946, 1, No. 1. Pp. 138.—A doctor's thesis which surveys the problems of educating feeble-minded, neurotic, epileptic, and psychopathic children. The principal conclusions concern the importance of home and community influences, the need for trained personnel and suitable facilities, and the desirability of fitting the program to the child. 32 references.—*A. Gladstone.*

4652. Pressey, S. L. (Ohio State U., Columbus.) Efficiency engineering in the educational emergency. *Sch. & Soc.*, 1947, 65, 425-428.—A program for

meeting the increased demands upon educational facilities by means of the application of the concepts and techniques of efficiency engineering to higher education is described together with the supporting data. Admission to college should be on the basis of aptitude, rather than on the character and amount of high-school credits, as evidence in various institutions indicates that students without complete high-school preparation have done well in college. Placement subsequent to admission could be done on the basis of examinations, since extensive research reveals the effectiveness of such a procedure. There is, however, need for improvement in the quality of such placement examinations. Varying emphasis on formal teaching and class work, depending upon the level of ability of the students, will improve learning efficiency. In this connection, "seminars" for the able students have been especially effective. Studies have shown that able students can carry successfully heavier academic loads than is the general practice. There is, finally, need for more systematic study of curriculum content to effect the necessary educational economies. The fact that 22% of the graduates at the Ohio State University, in 1944-45, completed a 4-year program in 3 calendar years or less, with academic records above the average, and with adequate social participation, is dramatic proof of the feasibility of such a program.—*R. C. Strassburger.*

4653. Robinson, Harvey A., & Shor, Joel. (Yale U., New Haven, Conn.) Sources of consistency in some self-evaluation and projection situations. *Amer. Psychologist*, 1947, 2, 276.—Abstract.

4654. Secler-Riou, Fernande. La discipline et l'éducation du dressage à l'autonomie. Paris: Bourrelier & Cie., 1946. Pp. 126.—The theory and practices of school-room discipline are critically examined in this monograph. Rejecting traditional discipline with its emphasis on authority and outward conformity and order, the author views discipline as an integral part of the educational process, whose goal is the development of a rational and self-governing (free) adult. All disciplinary measures should therefore be directed toward this end and should be based on the principles of child psychology. In terms of this framework, the author discusses such specific problems as methods of reward and punishment, the "undisciplined" child, and the attitudes of the teacher. He sees in the "activity program" (which he indicates as the future direction for French elementary school education) not only the means by which the conception of discipline will be transformed but also as the educational expression of changing social values and relations. 18 references.—*E. Raskin.*

4655. Tibbitts, Clark, & Hunter, Woodrow W. (U. Michigan, Ann Arbor.) Veterans and non-veterans at the University of Michigan. *Sch. & Soc.*, 1947, 65, 347-350.—With the exception of the students enrolled in the summer session, veterans were consistently older than non-veterans attending the university during the period 1944-46. Approximately 30% of the veterans were married as com-

pared with 15% of the non-veterans. Academic class distribution of the two groups showed much similarity, and was quite consistent with the prewar pattern. Comparison of the honor-point ratios of 857 male veterans with those of 846 male non-veterans revealed no substantial difference when all academic levels were included. There was evidence, however, when class status was considered that upper classmen among the veterans were doing better than lower classmen as compared with the non-veterans. In terms of tests of general ability administered in the fall of 1945 freshman veterans were not inferior to freshman non-veterans.—R. C. Strassburger.

4656. Torgerson, Theodore L. (*U. Wisconsin, Madison.*) *Studying children; diagnostic and remedial procedures in teaching.* New York: Dryden Press, 1947. Pp. x + 230. \$2.75.—The teacher is shown how problem behavior may be first identified and how various techniques may be used to study the causes of the behavior observed. Anecdotal records, interviews, home visits, standard tests, and the case method, are discussed. A final chapter deals with prevention and correction of problem origins.—M. Mercer.

4657. Zulliger, Hans. *Über Lernstörungen.* (Disturbances of learning.) *Schweiz. Z. Psychol. Anwend.*, 1943, 2, 283-302.—A discussion of the kinds of learning difficulties found among young pupils, their causes and possible remedies.—K. F. Muenzinger.

[See also abstracts 4208, 4419, 4427, 4495, 4513, 4542, 4557, 4559, 4612, 4668.]

PSYCHOLOGICAL TESTS

4658. Arthur, Grace. *A point scale of performance tests, Revised Form II.* New York: Psychological Corporation, 1947.—Ages 4-15. Individual test. Manual, record blank, and materials. (See *J. consult. Psychol.*, 1947, 11, 224.)

4659. Benton, A. L. *A visual retention test for clinical use.* New York: Psychological Corporation, 1947.—Adult. Individual test, 2 forms. (4) min. Manual, scoring standards, and plates. (See *J. consult. Psychol.*, 1947, 11, 225.)

4660. Chard, Ray D., & Schwartz, Bert D. (*Vets. Hosp., Lyons, N. J.*) *A new modified concept for-*

mation test. *Amer. Psychologist*, 1947, 2, 274-275.—Abstract.

4661. Gilliland, R. (*Northwestern U., Evanston, Ill.*) *An intelligence test for early infancy.* *Amer. Psychologist*, 1947, 2, 302.—Abstract.

4662. Harris, A. J. *Harris tests of lateral dominance.* New York: Psychological Corporation, 1947.—Individual test, 1 form. Manual, record blank, and materials. (See *J. consult. Psychol.*, 1947, 11, 224.)

4663. Horrocks, John E., & Kinzer, John R. (*Ohio State U., Columbus, O.*) *The construction of a form-board to measure spatial relations-dexterity.* *J. Psychol.*, 1947, 24, 89-91.—The Kinzer-Horrocks Spatial Relations Dexterity Form-Board combines into one measuring instrument two tasks, the perception of spatial relations and of dexterity. The assumption is made that in most work situations dexterity and spatial relations perception occur together. The form board is described and the method of administering the test is described briefly. No norms are given.—M. Mercer.

4664. Lundin, Robert W. (*Indiana U., Bloomington.*) *The development and validation of a set of musical ability tests.* *Amer. Psychologist*, 1947, 2, 350.—Abstract.

4665. Pedersen, Ruth A. (*Richardson, Bellows, Henry & Co., New York.*) *The development of two machine-administered scales of stenographic proficiency.* *Amer. Psychologist*, 1947, 2, 350-351.—Abstract.

4666. Roeder, Wesley S. *The Roeder General Aptitude Profile.* *Amer. Psychologist*, 1947, 2, 351.—Abstract.

4667. Twitchell-Allen, Doris. (*Glendale, O.*) *A 3-Dimensional Apperception Test: a new projective technique.* *Amer. Psychologist*, 1947, 2, 271-272.—Abstract.

4668. Wrightstone, J. W., & O'Toole, C. E. *Prognostic test of mechanical abilities.* Los Angeles: California Test Bureau, 1947.—1 level: grades 7-12. 1 form. IBM. 38 (45) min. (See *J. consult. Psychol.*, 1947, 11, 224-225.)

[See also abstracts 4210, 4366, 4586.]

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CONTENTS

Policies and Procedures	553
List of Journals	558
List of Abstractors	563
Author Index	566
Subject Index	578

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CONTENTS

The numbers refer to abstracts

General (incl. Statistics)	2145-2170	Functional Disorders	Industrial and Personnel Problems
1-19	2582-2587	113-165	225-271
332-359	2922-2944	449-499	564-592
645-676		746-804	849-872
961-1003		1071-1150	1224-1243
1342-1384	Complex Processes and Organizations (incl. Learning, Thinking, Intelligence, Personality)	1459-1516	1602-1622
1707-1740	3463-3488	1848-1921	1983-2016
2051-2097	3927-3957	2203-2309	2423-2447
2521-2558	4324-4401	2603-2688	2770-2785
2818-2855			
3328-3383		Behavior Deviations	Personnel Psychology (incl. Vocational Guidance)
3780-3816		2964-3132	3214-3245
4179-4230		3516-3637	3705-3731
		3974-4043	4093-4133
		4430-4506	4582-4615
Nervous System	Personality and Character		
20-30	166-175	Childhood and Adolescence	Industrial and Business Psychology
360-368	500-515	312-331	3246-3256
677-688	805-819	631-644	3732-3734
1004-1008	1151-1171	922-960	4134-4151
1385-1390	1517-1537	1316-1341	4616-4637
1741-1763	1922-1932	1684-1706	
2098-2104	2310-2338	2038-2050	
2559-2566	2689-2697	2499-2520	
	3133-3147	2805-2817	
Physiological Psychology (incl. Nervous System)	Motor & Glandular Responses (incl. Emotion, Sleep)	Developmental Psychology	Educational Psychology (incl. Vocational Guidance)
2856-2879	72-104	3295-3327	272-301
3384-3399	421-439	3489-3515	593-623
3817-3839	715-725	3958-3973	873-917
4231-4245	1045-1056	4402-4429	1244-1306
	1433-1451		1623-1673
Receptive and Perceptual Processes	1817-1843	General Social Processes (incl. Aesthetics)	2017-2033
31-62	2171-2186	176-218	2448-2486
369-391	2588-2599	516-556	2786-2797
689-705	2945-2958	820-841	
1009-1031		1172-1219	
1391-1418	Response Processes	1538-1595	Educational Psychology
1764-1806	3451-3462	1933-1975	3257-3282
2105-2144	3896-3926	2339-2411	3735-3765
2567-2581	4292-4323	2698-2741	4152-4173
2880-2921			4638-4657
3400-3450	Psychoanalysis, Dreams, Hypnosis	Social Psychology	
3840-3895	105-112	3148-3213	Mental Tests
4246-4291	440-448	3638-3704	302-311
Learning, Conditioning, Intelligence (incl. Attention, Thought)	726-745	4044-4092	624-630
63-71	1057-1070	4501-4581	918-921
392-420	1452-1458		1307-1315
706-714	1843-1847	Crime and Delinquency	1674-1683
1032-1044	2187-2202	219-224	2034-2037
1419-1432	2600-2602	557-563	2487-2498
1807-1816	2959-2963	842-848	2798-2804
		1220-1223	3283-3294
		1596-1601	3766-3779
		1976-1982	4174-4178
		2412-2422	4658-4668
		2742-2769	

Policy and Procedures.....	Page
List of Journals covered.....	553
List of Abstractors.....	558
Author index.....	563
Subject index.....	566
	578

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Psychological Abstracts

VOLUME 21

NUMBER 13

DECEMBER 1947

POLICIES AND PROCEDURES OF PSYCHOLOGICAL ABSTRACTS

C. M. LOUITT, *Editor*

During the past year there have been many detailed questions and general expressions of interest concerning the policies and practices of PSYCHOLOGICAL ABSTRACTS. Early in the year a mimeographed "Manual for Abstractors" answered some of these questions, and provided cooperating abstractors with standardized procedures. In an effort to make this information available to all readers of the ABSTRACTS, and to describe the operation more extensively than has hitherto been done, it appears desirable to publish in this 13th issue a fairly comprehensive account of the policies and procedures which are being followed.

I. POLICY

Generally it will be agreed that PSYCHOLOGICAL ABSTRACTS is intended to be a current, yet permanent, record of the literature of psychology covered with the greatest possible completeness. Dr. J. Brožek, in a personal letter, succinctly sums up a significant *de facto* function of this journal "PSYCHOLOGICAL ABSTRACTS have become, during the last twenty years, the standard bibliographical reference source, and the material included delimits the confines of the literary universe for the majority of American psychologists." This quotation, which expresses a thought shared by others, presents a definite challenge in the formulation of policy.

Because of the nature of psychology and its applications it is not always clear what should be considered within the literature. Casual observation indicates that limiting the coverage to papers published in journals with the word "psychology" in the title, or to books which would be classified under this heading in a library classification schedule, would be inexcusably restrictive. Once one goes beyond the specifically denoted psychological literature, however, there arises the question of whether or not to include a given article. The *science* of psychology is restrictive in its requirements for experimentation and exact methodology; if such standards are to be observed much otherwise valuable material of psychological interest appears irrelevant. On the other hand, the *applications* of psychology are becoming more expansive, and psychologists in various applied fields will find material of psychological significance in an area much larger than that brought under experimental control. For example, *clinical* psychologists are interested in individual case studies and other observational

material, even though rigorous statistical standards are not met. Furthermore, PSYCHOLOGICAL ABSTRACTS has the double function of recording for psychologists the contributions to psychology made in our own and in related fields and, at the same time, representing psychology to scientists, librarians, and research workers outside the field. The first function provides a current informative record of the literature of psychological importance, which later becomes a permanent historical record. This function is of primary interest to members of the psychological profession and to a lesser extent to professional workers in cognate areas. The second function provides a bibliographic instrument of value to the library, and other non-psychological professions, as well as to psychologists. The first of these functions emphasizes the nature of the abstracts, while the latter depends upon completeness and accuracy of bibliographic references.

The complex bibliographical service which is to be rendered by a comprehensive and non-critical abstract journal requires that the following four classes of literature be included, although with decreasing proportion of coverage: (1) specifically psychological literature; (2) psychological contributions from related fields; (3) material with psychological significance from borderline fields; (4) background material of specific value to psychologists.

The first category needs little explanation, as it includes those papers written by psychologists and published in commonly recognized psychological journals. Inasmuch as any editorial selection from such publications would amount to a subtle evaluation of the contents, all should be included.

The second category includes publications of psychologists written in their professional capacity even though they are dealing with subjects that in themselves might be considered rather far afield. It also includes contributions from other fields having a clear contribution to psychological theory or practice. Examples: neural physiology as affecting learning, sense perception, or motor performance; mathematics applied to psychological data; social science indicating the influence of social environment on behavior; psychological interpretation or contributions in social, industrial, or other fields.

The third category includes the publications in other professional fields, where the subject or the author's point of view makes the article of definite psychological significance. Examples: post-operative behavior in neural surgery; ethnological or cultural studies of social groups; studies of physiological

conditions affecting behavior; psychiatric studies of abnormal behavior and methods of psychotherapy; studies in industrial management or in business which involve psychological principles.

The fourth and last category includes publications which are definitely in borderline fields and which cannot be considered as having a specific psychological reference. They are included because they represent theoretical or review treatments of subjects which are of interest to psychologists. Examples: philosophy of science and scientific method; mathematical statistics; extensive reviews of special subjects such as metabolism, heredity, cultural geography, industrial relations, or mental disease entities; apparatus design possibly usable in psychological work.

II. PLAN OF COVERAGE

Coverage of pertinent literature as exhaustively as possible requires systematic and continuous attention to journals, books, and other publication media. The following brief descriptions indicate the methods used in the Editorial Office in meeting these requirements. Journal literature is covered in four ways, and book publications in two.

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Abstractor's Search. This term is used for journals which are not received by the Editorial Office but which abstractors have agreed to check regularly on their own responsibility. Journals currently being handled in this manner are printed in roman type in the list in Section VIII. Abstractors who have agreed to be responsible for such material submit a quarterly report of the issues they have covered, whether or not any abstracts were prepared. An accession record of this coverage is kept in the Editorial Office. In this case decision as to what should be abstracted is left to the abstractor.

Title Search. Several regular bibliographical publications are searched in the Editorial Office for titles of pertinent articles published in media not included in the two preceding classes. Among such bibliographies are the *Current List of Medical Literature*, *Child Development Abstracts*, *Biological Abstracts*, the list of current literature of philosophy in the *Philosophical Review*. Certain journals covered in this manner are indicated by italics in the list in Section VIII. Titles secured in this manner are sent to cooperating abstractors for inspection and preparation of abstracts if they consider the articles suitable. Frequently when a title is found in an abstract journal, the published abstract is

copied, or rewritten, and the source indicated by a credit line in place of the abstractor's name.

Miscellaneous. The preceding three methods insure fairly extensive coverage of journals which are most likely to contain material of interest. However, occasionally papers are published in journals not reached by any of these three. We have requested in an editorial note, and repeat here, that authors of psychological papers published in unusual journals will do the ABSTRACTS a service if they will supply to the Editorial Office reprints or author abstracts of such publications. In this way, and by the Editor's casual reading, miscellaneous material is found. This category does not involve any systematic coverage, but it does produce important material.

BOOKS. *Review copies.* A number of publishers have furnished the ABSTRACTS with review copies of their publications for many years. In September, 1947 a special request for such material was sent to 500 publishers here and abroad. To this request there has been a gratifying response in additional agreements to send review material regularly.

Title search. The Editor regularly inspects such standard bibliographies as *The Publishers Weekly*, the *Cumulative Book Index*, proof cards of the Library of Congress catalogue, foreign book lists, and book review sections of exchange journals. Titles secured from these sources are checked against the office records and if they have not been received they are requested from the publishers.

All books received in the Editorial Office are inspected and if found outside of our field they are returned to the publisher. If an abstract, or several abstracts in the case of collections, is to be prepared the necessary record cards are made and usually a cooperating abstractor is asked to prepare the abstract. In those cases where it is impossible to receive review copies, abstracts are prepared in the Editorial Office, or by cooperating abstractors from library copies. Psychologists can be helpful by supplying abstracts of, or calling our attention to, books which they feel might not otherwise come to our attention.

III. NATURE OF THE ABSTRACT

The nature and length of abstracts adequate for the purposes of the journal will vary greatly with the many different types of articles and must be left largely to the judgment of the abstractor. However, certain principles should be kept in mind. Abstracts should always indicate the scope of the material covered and should report, or make specific reference to, all new material of psychological interest which the publication contains. They should be as brief as possible without detracting from their greatest usefulness.

Abstracts should be impersonal, neutral condensations, and not critical reviews. Although abstractors may disagree with the author, the abstract is no the place to express that disagreement, since we cannot afford space for the author to reply. While

abstracts are non-critical, the use of evaluative adjectives is not precluded where such phrases are appropriate. "Elementary textbook," "comprehensive review," "brief discussion" are descriptive rather than critical expressions.

The source of a paper or publication is of importance in deciding the amount of detail to be included in the abstract. Items which are available to relatively few psychologists, as in journals not readily available, or books published out of the usual channels, or in languages such as Russian, Chinese, or others not commonly read, should be abstracted in some detail. Publications readily available should be abstracted more briefly, but in sufficient fullness for the purpose of indexing.

Abstracts may be informational or descriptive depending upon the nature of the material. Research reports, theoretical discussions, or descriptions of methods, for example, should be abstracted so that the author's purpose, pertinent findings, and conclusions are given. Reviews and certain general texts and treatises may best be handled by a descriptive statement—in the case of some books by a briefing of the table of contents, but not by a publisher's blurb.

Since the annual index constitutes a permanent record of psychological publications it is very important that abstracts should contain, or make specific reference to, all of the information in articles that is suitable for index entries. This would include methods, apparatus, measurements, theories which are presented as new and of value in themselves. The detail to be given depends upon the material. Standard tests, methods or apparatus should be referred to by name; new methods briefly described; the most significant measurements stated.

Accuracy is of fundamental significance in abstracts. Bibliographical data—personal names, titles, dates, pagination, spelling—should be checked and rechecked to ensure accuracy. Quotations in the body of the abstract should be exact. All numerical data, formulae, and proper names in the abstract must be correct; this is the abstractor's responsibility as the editors have no way of recognizing errors, except some of the more obvious.

IV. OFFICE PROCEDURE

While the endless details of procedure in the Editorial Office would be of little interest to most readers, a general description should assist in understanding our operation.

In order to avoid duplication, as well as to prevent omissions, a careful record must be maintained. Under present procedure the "author file" includes a full bibliographic entry for each abstract published, and constitutes a complete current author index. The "journal file," with a card for each journal showing the author's name and the pages of all articles abstracted, provides a complete coverage of any given journal. The exchange journal and abstractor search accession files show how many issues of each journal have been searched.

After items have been approved for abstracting, author and journal cards are made and proofread for accuracy of bibliographic data. These cards are held while the material is in the abstractor's hands. When abstract manuscript is received it is checked against the cards. The copy then goes to the Editor who rechecks the bibliographic data, marks it for type style to be used, and edits the text. It is then classified, and subject index cards are prepared. This editing process is carried on daily, and, beginning approximately the first of each month, the edited and indexed copy is made up for the issue to appear two months hence.

It is hoped that this brief account will serve to inform the reader of the ways in which the Editorial Office attempts to meet the problems with which it is faced in keeping our service complete and systematic. We welcome suggestions at any time, and are always happy to have offers of collaboration.

VI. STYLE

Bibliographic Entry

Bibliographic entries in the ABSTRACTS are in style commonly used in psychological literature and described by Anderson and Valentine.¹ The basic forms are:

Books—

Wolff, Werner. (*Bard Coll., Annandale-on-Hudson, N. Y.*) *What is psychology; a basic survey.* New York: Grune & Stratton, 1947, 410 p. \$4.00.—

Journal articles—

Johnson, A. P. (*Purdue U., Lafayette, Ind.*) *An index of item validity providing a correction for chance success.* *Psychometrika*, 1947, 12, 51–58.

Author. Complete name as published. If there are multiple authors, all are in inverted form and separated by commas. The last name is separated from the preceding one by an ampersand (&).

Address. Follows name in parentheses and single underline (for italics). Address will be included only if given in publication, and in the form published. Abstractors are asked to include name of major institutions or street address, and place name—the address should be as brief as possible, but sufficient to locate the author and serve as mailing address. For multiple authors with different addresses usually only that of the senior author will be included. If multiple authors have the same address, it will follow the last name. Abbreviations used are standard. State and city names need not be used if included in the title. Examples.

U. Michigan, Ann Arbor
St. Elizabeth's Hosp., Washington, D. C.
Cornell U., Ithaca, N. Y.

¹ Anderson, J. E., & Valentine, W. L. The preparation of articles for publication in the journals of the American Psychological Association. *Psychol. Bull.*, 1942, 41, 345–376.

U. Pittsburg, Pa.
 Ullevaal Hosp., Oslo, Norway
 Duke U. Sch. Med., Durham, N. C.
 1086 Cresent St., Albany, N. Y.

Title. Title should be exactly as published in the original language. Non-Roman alphabets should be transliterated. Capitalization is *NOT* used except for the initial letter, and for German nouns. Sub-titles are to be separated from the main title by a semicolon. A translation (enclosed in parentheses) of titles in foreign languages will immediately follow the actual title.

Publisher. The place and name of the publisher is given for books followed by the date. The title of the journal in which the article occurs will be abbreviated (Section VIII) and underlined.

Pagination. Book pagination will be given in a modified Library of Congress form, e.g., xii, 430 p. This symbol means there are 12 numbered pages of preliminary matter and 430 numbered pages of text.

Journal articles will indicate the volume number in bold face type, and the first and last pages of the article. In the case of journals which page each issue separately, the issue number will be indicated in parentheses immediately following the volume number.

The *prices* of books are indicated in the monetary system of the country of publication where the price is known.

For certain *special types of material*, variants of the basic bibliographic entry are used. The following examples are illustrative:

Collections. For articles in books for which there is a general abstract published.

Fitts, Paul M. Psychological research on aviation equipment design principles. In Kelly, G. A. *New methods in applied psychology*, (see 21: 4140), 1947, p. 165-169.

For articles in books for which there is no general abstract published.

Konopka, Gisela. Therapy through group work. In *American Association of group workers, Toward professional standards*. New York: Association Press, 1947. p. 140-149.

For abstracts of degree theses:

Elliott, Leota W. Benito Pérez Caldós and abnormal psychology. In *University of New Mexico, Abstracts of theses. . . . 1933-1937*. Albuquerque, 1946, p. 29-30. (*Univ. N. Mex., Publ. misc. Ser.*, 1946, No. 1.)

For items treated as books, but which are part of a numbered series, the serial information is given in parentheses after the entry as shown in the immediately preceding example.

Text of Abstract

The text of the abstract should be separated from the bibliographic entry by a dash. It does not start as a new paragraph and internally it should not be

broken into paragraphs. Complete sentences should be used; telegraphic style is to be avoided. Insofar as possible introductory phrases as "The author reports . . ." or "This article . . ." should not be used in order to avoid monotony. The following specific stylistic items will be used as consistently as possible.

- (a) All numbers are to be in Arabic and not spelled out. A hyphen is used as a connective between a number and word, e.g., "50-item bibliography," "5-minute pause," but "73 cases," or "5 days later."
- (b) A series of statements are designated by Arabic numerals in parentheses, e.g., "the conclusions are: (1) . . . ; (2) . . .," etc.
- (c) Abbreviations may be used where the meaning is entirely clear, e.g., state names, cc., mm., m. Use symbols where appropriate, e.g., degrees (°), minutes (′), oxygen (O₂), potassium iodide (KI), plus (+)
- (d) Quotations should read exactly as the original. If the abstractor adds something within a quotation, it should be set off by square brackets []. Omissions are indicated by 3 dots, "... each subject . . . reacted in all situations. . ."

All entries will have an abstract as it is believed unwise to include title citations only. If an item is worthy of inclusion, it is worth at least a nominal annotation. The abstract of certain papers may be a one-sentence descriptive annotation. There are 3 special cases.

- (1) Abstracts which are primary publications, i.e., abstracts of papers read at professional meetings or abstracts of theses, will be labeled "abstract" or "abstract and discussion" with no further discussion of the content.
- (2) Obituaries and portraits will be included by title and the proper descriptive word.
- (3) In very rare cases an article, the title of which indicates the probable importance of the contents, may be completely unavailable for abstracting. In such cases there may be a "citation only" entry.

VII. JOURNAL ABBREVIATIONS

The abbreviations of journal titles used in the *World List*² have been adopted as official by the Editorial Board of the American Psychological Association.³ These abbreviations are based upon a code published in 1930 under the auspices of the League of Nations.⁴ Because of the many questions concerning periodical title abbreviations asked by

² A word list of scientific periodicals published in the years 1900-1933. (2nd ed.) London: Oxford Univ. Press. 1934. xiv, 780 p.

³ McGeoch, J. Forms of citation adopted by the Board of Editors of the American Psychological Association. *Psychol. Bull.*, 1939, 36, 25-30.

⁴ League of Nations. International Institute of Intellectual Cooperation. *International code of abbreviations for titles of periodicals*. Paris, 1930. 12 p.

readers, it seems desirable to reproduce these rules here. Examples are given only where the statement is thereby clarified. Following the rules is a list of abbreviations to which reference is made. The abbreviations of journals covered in PSYCHOLOGICAL ABSTRACTS are given in the list in Section VIII.

Abbreviation Code

- General Rules.** I. As a general rule, titles of periodicals are not abbreviated beyond a point which allows of their easy identification. The order of the words is not varied.
- II. Normally, the abridged form retains all words other than articles, conjunctions, prepositions, and analogous locutions. These are generally omitted. Exceptions: (1) When the title consists of only two nouns, (neither of which is a generic name) separated by an article, preposition, conjunction or a combination of these parts of speech, the latter are retained. (2) The conjunction is retained between two compound nouns, the last part of which is common to both, e.g., Land- und forstwirtschaftliche Blätter, *Land-u. forstw. Bl.* (3) In exceptionally long titles, in addition to articles, conjunctions and prepositions some of the other less important words are omitted, e.g., Comptes rendus hebdomadaires des séances de l'Académie des Sciences, *C.R. Acad. Sci., Paris.*
- III. The normal method of shortening is by abbreviation, the letters omitted being replaced by a full stop. Certain contracted forms are permitted, these are not followed by period. (see Engng, Wschr.)
- IV. Nouns are spelled with a capital, adjectives with a small initial letter. For geographical adjectives either a small or a capital letter may be used as preferred.
- V. No distinction is made between singular and plural.
- VI. Cognate words in different languages are reduced to the same form when the orthography permits. (see Acad., Soc.)
- VII. Titles transcribed in Roman characters are also abbreviated in accordance with the foregoing rules, but more sparingly. Titles of periodicals in oriental languages are not abbreviated.

- Special Rules:** I. Only titles consisting of at least two words are abbreviated. When a title consists of only one non-compound word it is given in full.
- II. In compound words each part is abbreviated as when it stands alone, the different elements of the word being connected by hyphens.
- III. The place of publication is not given except in the following cases, when it is separated by a comma from the title itself:
- a) When the resultant abbreviation does not reveal the language which has been abbreviated.

b) When the title is in a language other than that of the country in which the periodical is published.

c) When two or more periodicals have the same abbreviated title.

IV. The first word of the title may be less abridged.

V. When the title of a review begins with the name of a person, the surname only is kept and the rest of the title is abridged according to the rules.

Special abbreviations and contractions:

A. R.	annual report
Acad.	académie, academy, academia
Accad.	accademia
Akad.	Akademie, akademi
Bd	board
Bl.	Blad, Blatt, Blätter
C.R.	comptes-rendus
d.	die, der, dem, das
Engng	engineering
Engr.	engineer
g.	-ung(ending)
G.	giornale
Inst.	Institut, institute
Instn	institution
J.	journal
Jb.	Jahrbuch
Jber.	Jahresbericht, jaarbericht
Jh.	Jahresheft
kde.	kunde (ending)
Mber.	Monatsbericht
Mh.	Monatshefte
Mschr.	Monatschrift
o.	och
Rdsch.	Rundschau
S-B.	Sitzungsbericht
Sci.	science, scienza, scienza
Soc.	società, society, société, sociedad, sociedade, societates, societate
Szle	szemle
T.	tidskrift, tijdschrift
Tms	times
u.	und
Vjschr.	Vierteljahrsschrift
Wkly	Weekly
Wschr.	Wochenschrift
Z.	Zeitschrift
Zbl.	Zentralblatt

VII. NOTES FOR ABSTRACTORS

Preparation of Manuscript. In order to facilitate work in the Editorial Office the following directions should be exactly observed.

- (a) Type only one abstract on a single sheet. Special abstract forms will be furnished but any ordinary letter size sheet is satisfactory. (The perforated coupons at the bottom of the abstract forms are no longer used and should be removed.)

- (b) The typed line should be 5 inches in length. Please ask the typist to have all lines as close to this length as possible.
- (c) All copy, including the bibliographic heading, should be double spaced.
- (d) Indent only once—5 spaces preceding the author's name.
- (e) Underline *only* the following.
 - (1) in the abstract heading: name of journal in abbreviated form.
 - (2) in body of abstract: terms or phrases to be printed in italics, especially if occurring in quotations.
 - (3) at end of abstract: your signature.

Please do *not* underline.

- (1) any part of the title unless italics are used by the author, e.g., biological terms;
- (2) volume number of journals.
- (f) Begin the abstract if possible with phrases other than "The author reports . . ." or "This book (or article) . . ." to avoid monotony.
- (g) Always use complete sentences, even though the abstract may be very brief.
- (h) Double check for accuracy all figures and formulae used. Be sure to indicate by underlining whether italics are to be used for symbols such as *r*, *S*, *0*, (*I*).
- (i) When abbreviations (such as WAA, T-S-E, R.P.A.) are used, give full name of organization, test, etc., in margin of abstract.
- (j) When reference is made in the abstract to a previous publication, give full information as to the journal, author, title, etc., so that a cross reference can be supplied.
- (k) Note if portrait, extensive bibliography, or other exceptional material is present. Indicate such material by single phrase at the end of the abstract, e.g., Portrait, 24 references, 172-item bibliography.
- (l) Type your signature using only initials and last name following the last sentence of the abstract and separated therefrom by a dash (—). Underline the signature. Do not include a place designation. Example: ". . . maturation is held incorrect.—F. C. Sumner."

Time Lag. Copy for a given monthly issue is completed by the 15th of the second month preceding, e.g., copy for the March issue is sent to the printer on or before the 15th of January. This delay is unavoidable in the manufacturing process. However, every effort must be made to reduce the total period between original publication and the appearance of an abstract. Routine material seldom remains in the Editorial Office more than two days. Abstractors are urged to return their material within two weeks of receipt of the original. The shorter this interval is, the more prompt the publication can be. In general, abstractors should send material when it is ready and not accumulate manuscript for monthly, quarterly, or semi-annual periods.

Payment for abstracting. Abstracting is a service to the psychological profession and no effort is made to recompense the abstractors at a commercial rate. When original material is sent to the abstractor he keeps it as compensation. When it is impossible to supply the original abstracts are paid for at the rate of 2¢ per printed line. Such payment is made by the A.P.A. Business Office at quarterly intervals.

VIII. LIST OF JOURNALS COVERED

The following list includes all journals which are regularly searched by one of the three methods described in Section II. Journals received in the Editorial Office are printed in bold face type; those searched by abstractors are in roman type; and a selected number of journals covered by title search are in *italics*. Official abbreviations are given in parentheses following the full title. The name of the responsible abstractor is given in the second parentheses. In the few cases where no abstractor's name is given, the journal is temporarily unassigned. Suggestions for additions to this list will be appreciated.

- Acta ophthalmologica*, Kjøbenhavn. (*Acta ophthal.*, Kbh.) (Sumner)
- Acta Oto-Laryngologica*. (*Acta oto-laryng.*, Stockh.) (Garner)
- Acta Oto-Laryngologica, Supplement*. (*Acta oto-laryng.*, Stockh., Suppl.) (Garner)
- Acta Paediatrica*, Stockholm. (*Acta paediatr.*, Stockh.) (Benton)
- Acta Paediatrica, Stockholm, Supplement*. (*Acta paediatr.*, Stockh., Suppl.) (Benton)
- Acta psychiatrica et neurologica*, Kjøbenhavn. (*Acta psychiat.*, Kbh.) (Benton)
- Adult Education Journal. (*Adult educ. J.*) (Kuhlen)
- Advanced Management**. (*Advanced Mgmt*) (H. Moore)
- Advancement of Science. (*Advanc. Sci.*) (Speer)
- African Studies. (*Afr. Stud.*) (Reyna)
- Afroamerica. (*Afroamerica*) (Sumner)
- Alcohol Hygiene. (*Alcohol Hyg.*) (Franklin)
- American Annals of the Deaf**. (*Amer. Ann. Deaf*) (Myklebust)
- American Anthropologist. (*Amer. Anthropol.*) (Hanks)
- American Imago**. (*Amer. Imago*) (Varvel)
- American Journal of Diseases of Children. (*Amer. J. Dis. Child.*) (Long)
- American Journal of the Medical Sciences. (*Amer. J. med. Sci.*) (Sumner)
- American Journal of Medicine*. (*Amer. J. Med.*)
- American Journal of Mental Deficiency**. (*Amer. J. ment. Def.*) (Staudt)
- American Journal of Nursing. (*Amer. J. Nurs.*) (Gehlmann)
- American Journal of Ophthalmology**. (*Amer. J. Ophthal.*) (Shaad)
- American Journal of Optometry**. (*Amer. J. Optom.*) (Stoll)
- American Journal of Orthopsychiatry**. (*Amer. J. Orthopsychiat.*) (Perl)
- American Journal of physical Anthropology*. (*Amer. J. phys. Anthropol.*)
- American Journal of Physics. (*Amer. J. Phys.*)
- American Journal of Physiology. (*Amer. J. Physiol.*) (Bromiley)
- American Journal of Psychiatry**. (*Amer. J. Psychiat.*) (Weitz)

- American Journal of Psychoanalysis.** (*Amer. J. Psychoanal.*)
- American Journal of Psychology.** (*Amer. J. Psychol.*) (Ericksen)
- American Journal of Psychotherapy.** (*Amer. J. Psychother.*) (Burchard)
- American Journal of Sociology.** (*Amer. J. Social.*) (Glick)
- American Museum Novitates.** (*Amer. Mus. Novit.*) (Schneirla)
- American Naturalist.** (*Amer. Nat.*) (Louttit)
- American Practitioner.** (*Amer. Practit.*) (Sumner)
- American Psychologist.** (*Amer. Psychologist*) (Timm)
- American Review of Soviet Medicine.** (*Amer. Rev. Soviet Med.*) (Mead)
- American School Board Journal.** (*Amer. Sch. Bd J.*) (Speer)
- American Scientist.** (*Amer. Scientist*) (Spelt)
- American Sociological Review.** (*Amer. sociol. Rev.*) (Nowlis)
- Anatomical Record.** (*Anat. Rec.*)
- Annales Paediatrici.** (*Ann. Paediat.*) (Templin)
- Annals of the American Academy of Political and Social Science.** (*Ann. Amer. Acad. polit. soc. Sci.*)
- Annals of Eugenics, Cambridge.** (*Ann. Eugen., Camb.*) (Wapner)
- Annals of Internal Medicine.** (*Ann. intern. Med.*) (Badenhausen)
- Annals of Mathematical Statistics.** (*Ann. math. Statist.*) (Festinger)
- Annals of the New York Academy of Sciences.** (*Ann. N. Y. Acad. Sci.*) (Ross)
- Annals of Otolaryngology, Rhinology, and Laryngology, St. Louis.** (*Ann. Otol., etc., St. Louis*) (Hoffman)
- Année médicale psychologique, Paris.** (*Année méd. psychol., Paris.*) (Sumner)
- Année Psychologique.** (*Année psychol.*) (Sumner)
- Antiseptic, Madras (Antiseptic)**
- Applied Anthropology.** (*Appl. Anthropol.*) (Hanks)
- Applied Psychology Monographs.** (*Appl. Psychol. Monogr.*) (Newland)
- Archiv für Kinderheilkunde.** (*Arch. Kinderheilk.*) (Templin)
- Archives of Neurology and Psychiatry, London.** (*Arch. Neurol. Psychiat., Lond.*) (Wagoner)
- Archives of Ophthalmology.** (*Arch. Ophthalm., Chicago.*) (Ross)
- Archives of Otolaryngology, Chicago.** (*Arch. Otolaryng., Chicago.*) (Hoffman)
- Archives of Pediatrics.** (*Arch. Pediat.*) (Templin)
- Archives de psychologie, Genève.** (*Arch. Psychol., Genève*) (Bird)
- Archivio de Psicologia, Neurologia e Psichiatria.** (*Arch. Psicol. Neurol. Psychiat.*) (Calabresi)
- Arquivo de medicina legal, Lisboa.** (*Arch. Med. leg., Lisboa.*) (Corsini)
- Archivos Venezolanos de Puericultura y Pediatría.** (*Arch. venez. puericultura Pediat.*) (Smith)
- Archivos Venezolanos de la sociedad de Oto-rinolaringología, Oftalmología, Neurología.** (*Arch. venez. Soc. Oto-rino-laringol. Neurol.*)
- Arztliche Wochenschrift.** (*Arztl. Wschr.*) (Sumner)
- Atlantic Monthly.** (*Atlant. Mon.*)
- Australasian Journal of Psychology and Philosophy.** (*Aust. J. Psychol. Phil.*) (Klein)
- Behavior: an international journal of comparative ethology.** (*Behavior*) (O'Kelly)
- Beihfte, Archiv für Kinderheilkunde.** (*Beih. Arch. Kinderheilk.*) (Templin)
- Beihfte zur Schweizerischen Zeitschrift für Psychologie und ihre Anwendungen.** (*Beih. Schweiz. Z. Psychol. Anwend.*) (Muenzinger)
- Bibliography of Scientific and Industrial Reports.** (*Bibl. scient. industr. Rep., U. S. Dep. Commerce*) (Office)
- Biological Abstracts, Section B.** (*Biol. Abstr., Sect. B*) (Office)
- Biological Abstracts, Section H.** (*Biol. Abstr., Sect. H*) (Office)
- Biological Bulletin of the Marine Biological Laboratory, Woods Hole, Mass.** (*Biol. Bull. Woods Hole*)
- Biological Review, City College, N. Y.** (*Biol. Rev., N. Y.*)
- Biologische Zentralblatt.** (*Biol. Zbl.*)
- Biometric Bulletin.** (*Biometric Bull.*)
- Biometrics.** (*Biometrics*)
- Biometrika, Cambridge, Eng.** (*Biometrika*)
- Boletín Bibliográfico Mexicano.** (*Bol. bibliogr. mex.*) (Office)
- Boletín de los hospitales.** (*Bol. Hosp., Caracas*) (Sumner)
- Boletín del Instituto internacional americano de protección a la infancia, Montivideo.** (*Bol. Inst. int. amer. Prot. Infanc., Montevideo.*) (Corsini)
- Boletín del Instituto Psicopedagógico Nacional, Lima.** (*Bol. Inst. psicopedag. nac., Lima.*) (Gladstone)
- Brain: a journal of neurology.** (*Brain.*) (Sumner)
- British Journal of Educational Psychology.** (*Brit. J. educ. Psychol.*) (Strassburger)
- British Journal of Medical Psychology.** (*Brit. J. med. Psychol.*) (Hilgard)
- British Journal of Ophthalmology.** (*Brit. J. Ophthalm.*) (Tinker)
- British Journal of Ophthalmology, Monograph Supplement.** (*Brit. J. Ophthalm., Monogr. Suppl.*) (Tinker)
- British Journal of Psychology.** (*Brit. J. Psychol.*) (Melton)
- British Medical Journal.** (*Brit. med. J.*)
- Bulletin Analytique.** (*Bull. Analyst.*) (Office)
- Bulletin on Current Literature of Interest to Crippled Children Workers.** (*Bull. Curr. Lit. Crippled Child. Wkrs*) (Office)
- Bulletin of the History of Medicine.** (*Bull. Hist. Med.*) (Sumner)
- Bulletin of Industrial Psychology and Personnel Practice.** (*Bull. industr. Psychol. Personnel Pract., Melbourne.*) (Browne)
- Bulletin Industrial Relations Center, University of Minnesota.** (*Bull. industr. Relat. Center, Univ. Minn.*) (Wilke)
- Bulletin Johns Hopkins Hospital.** (*Bull. Johns Hopk. Hosp.*) (Eves)
- Bulletin of the Los Angeles Neurological Society.** (*Bull. Los Angeles neurol. Soc.*) (Spelt)
- Bulletin of Mathematical Biophysics.** (*Bull. math. Biophys.*)
- Bulletin of the Menninger Clinic.** (*Bull. Menninger Clin.*) (Varvel)
- Bulletin of the National Association of Secondary School Principals.** (*Bull. Nat. Ass. Secondary Sch. Principals.*) (Gehlmann)
- Bulletin of the New England Medical Center.** (*Bull. New Engl. med. Cent.*) (Hoffman)
- Bulletin Peabody College for Teachers.** (*Bull. Peabody Coll. Teach.*) (Cuff)
- Bulletin of Practical Ophthalmology.** (*Bull. pract. Ophthalm.*) (Knox)
- Bulletin of the U. S. Army Medical Department.** (*Bull. U. S. Army med. Dep.*) (Rouse)
- Cahiers de Pédagogie de l'Université de Liège.** (*Cah. Pédag.*) (Piret)
- California Journal of Elementary Education.** (*Calif. J. elem. Educ.*) (Kuhlen)
- Canadian Journal of Psychology.** (*Canad. J. Psychol.*) (Finger)

- Canadian Journal of Research.* (*Canad. J. Res.*)
 Canadian Medical Association Journal. (*Canad. med. Ass. J.*) (Sumner)
 Catholic Education Review. (*Cath. Educ. Rev.*) (Speer)
 Catholic School Journal. (*Cath. Sch. J.*) (Speer)
 Child Development. (*Child Developm.*) (Long)
 Child Development Abstracts and Bibliography. (*Child Developm. Abstr.*) (Office)
 Childhood Educ. (*Childh. Educ.*) (Kuhlen)
 Chinese Journal of Educational Psychology. (*Chin. J. educ. Psychol.*) (Murphy)
 Ciba Symposia. (*Ciba Symposia*) (Louttit)
 Ciencia, México. (*Ciencia, Méx.*) (Brožek)
 Cincinnati Journal of Medicine. (*Cincinnati J. Med.*) (Knox)
 College Board Review. (*Coll. Bd. Rev.*) (Carter)
 College and Research Libraries. (*Coll. & Res. Libr.*) (Louttit)
 Comparative Psychology Monographs. (*Comp. Psychol. Monogr.*) (Munn)
 Compass. (*Compass*) (Long)
 Connecticut Medical Journal. (*Conn. med. J.*) (Sumner)
 Contact, Pensacola. (*Contact, Pensacola*) (Grether)
 Criança Portuguesa. (*Criança portug.*) (Corsini)
 Criminalia. Revista de Ciencias Penales, México. (*Criminalia, Méx.*) (Bunzel)
 Crippled Child. (*Crippled Child*) (Speer)
 Cumulative Book Index (*Cumulative Book Index*) (Office)
 Current List of Medical Literature. (*Curr. List med. Lit.*) (Office)

Deutsche medizinische Wochenschrift. (*Dtsch. med. Wschr.*)
 Digest of Neurology and Psychiatry. (*Dig. Neurol. Psychiat.*) (Pennington)
 Dil ve Tarih-Cografya. (*Tarih-Cografya*)
 Diseases of the Nervous System. (*Dis. nerv. Syst.*) (Henry)

 Education. (*Education*) (Gehlmann)
 Educational Leadership. (*Educ. Leadership*) (Gehlmann)
 Educational and Psychological Measurement. (*Educ. psychol. Measmt.*) (Wapner)
 Educational Record. (*Educ. Rec.*) (Kuhlen)
 Educational Records Bulletin. (*Educ. Rec. Bull.*)
 Educational Research Bulletin, Ohio State University. (*Educ. Res. Bull., Ohio St. Univ.*) (Louden)
 Egyptian Journal of Psychology. (*Egypt. J. Psychol.*) (Abou-Ghorra)
 Elementary School Journal. (*Elem. Sch. J.*) (Kuhlen)
 Endocrinology. (*Endocrinology*) (Pennington)
 English Journal. (*Engl. J.*) (Speer)
 Erasmus—Speculum Scientiarum. (*Erasmus*) (Office)
 ETC: A Review of General Semantics. (*Etc. Rev. gen. Semant.*) (Myklebust)
 Etude. (*Etude*) (Farnsworth)
 Eugenical News. (*Eugen. News*) (Louden)
 Eugenics Review. (*Eugen. Rev.*) (Schwesinger)
 Experientia, Basel. (*Experientia, Basel*)
 Eye, Ear, Nose and Throat Monthly. (*Eye, Ear, Nose, Thr. Mon.*) (Hoffman)

Fachblätter Schweizer Heime. (*Fachbl. Schweiz. Heime*)
 Fortune. (*Fortune*) (Gehlmann)

 Genetic Psychology Monographs. (*Genet. Psychol. Monogr.*) (Thompson)
 Geriatrics. (*Geriatrics*) (Kuhlen)
 Gesundheit und Wohlfahrt. (*Gesundh. u. Wohlf.*) (Sumner)
 Gesundheit, Zürich. (*Gesundheit, Zürich*)
 Growth, Ithaca. (*Growth*)

 Harper's Magazine. (*Harper's Mag.*)
 Health Education Journal, London. (*Hlth educ. J., Lond.*)
 Hearing News. (*Hearing News*) (Myklebust)
 Hearing Survey Quarterly. (*Hearing Surv. Quart.*) (Myklebust)
 High Points. (*High Points*) (Speer)
 Hospital, Rio de Janeiro. (*Hospital, Rio de J.*)
 Hospital Corps Quarterly. (*Hosp. Cps. Quart., Wash.*) (Knox)
 Human Biology. (*Hum. Biol.*) (Pennington)
 Human Relations. (*Hum. Relat.*)

 Illinois Medical Journal. (*Illinois Med. J.*) (Louttit)
 Illuminating Engineering. (*Illum. Engng, N. Y.*) (Knox)
 Imprensa médica, Rio de Janeiro. (*Impr. méd., Rio de J.*) (Sumner)
 Indian Journal of Psychology. (*Indian J. Psychol.*) (Kimble)
 Individual Psychology Bulletin. (*Indiv. Psychol. Bull.*)
 Industrial Arts & Vocational Education. (*Industr. Arts voc. Educ.*) (Speer)
 Industrial Relations Magazine. (*Industr. Relat. Mag.*) (Rothe)
 Industrial Training Abstracts. (*Industr. Train. Abstr.*) (Office)
 Infantry Journal. (*Infantry J.*) (Bartlett)
 International Journal of Opinion and Attitude Research. (*Int. J. Opin. Attitude Res.*) (Gage)
 International Journal of Psycho-Analysis. (*Int. J. Psycho-Anal.*) (Erickson)
 Isis, Menasha. (*Isis, Menasha*) (Sumner)

 Jewish Social Service Quarterly. (*Jewish soc. Serv. Quart.*) (Franklin)
 Jewish Social Studies. (*Jewish soc. Stud.*) (Perl)
 Journal of Abnormal and Social Psychology. (*J. abnorm. soc. Psychol.*) (Harsh)
 Journal of the Acoustical Society of America. (*J. acoust. Soc. Amer.*) (Garner)
 Journal of Aeronautical Science. (*J. aero. Sci.*) (Grether)
 Journal of Aesthetics. (*J. Aesthet.*) (Farnsworth)
 Journal of the American Association of Collegiate Registrars. (*J. Amer. Ass. colleg. Registr.*) (Speer)
 Journal of the American Dietetic Association. (*J. Amer. diet. Ass.*)
 Journal of the American Medical Association. (*J. Amer. med. Ass.*) (Louttit)
 Journal of the American Medical Women's Association. (*J. Amer. med. wom. Ass.*)
 Journal of the American Society for Psychological Research. (*J. Amer. Soc. psych. Res.*) (Humphrey)
 Journal of the American Statistical Association. (*J. Amer. statist. Ass.*) (Degan)
 Journal of Applied Psychology. (*J. appl. Psychol.*) (Browne)
 Journal of Aviation Medicine. (*J. Aviat. Med.*) (Chapanis)
 Journal Belge de Neurologie et de Psychiatrie. (*J. belge Neurol. Psychiat.*) (Sumner)
 Journal of Business Education. (*J. bus. Educ.*) (Kuhlen)
 Journal of Cellular and Comparative Physiology. (*J. cell. comp. Physiol.*) (Pennington)
 Journal of Chemical Education. (*J. chem. Educ.*) (Louttit)
 Journal of Child Psychiatry. (*J. Child Psychiat.*) (Cabot)
 Journal of Clinical Investigation. (*J. Clin. Invest.*)
 Journal of Clinical Psychology. (*J. clin. Psychol.*) (Heathers)
 Journal of Clinical Psychopathology. (*J. clin. Psychopath.*) (Muench)

- Journal of Comparative Neurology. (*J. comp. Neurol.*) (Stone, C. P.)
 Journal of Comparative and Physiological Psychology. (*J. comp. physiol. Psychol.*) (O'Kelly)
 Journal of Consulting Psychology. (*J. consult. Psychol.*) (Dulsky)
 Journal of Criminal Law and Criminology. (*J. crim. Law Criminol.*) (Weitz)
 Journal of Educational Psychology. (*J. educ. Psychol.*) (Mallory)
 Journal of Educational Research. (*J. educ. Res.*) (Murphy)
 Journal of Educational Sociology. (*J. educ. Sociol.*) (Gibbard)
 Journal of Engineering Education. (*J. Engng Educ.*) (Speer)
 Journal of Exceptional Children. (*J. except. Child.*) (Myklebust)
 Journal of Experimental Biology. (*J. exp. Biol.*) (Kappauf)
 Journal of Experimental Education. (*J. exp. Educ.*) (Thompson)
 Journal of Experimental Medicine. (*J. exp. Med.*) (Knox)
 Journal of Experimental Psychology. (*J. exp. Psychol.*) (Taylor)
 Journal of Experimental Zoology. (*J. exp. Zool.*) (Kappauf)
 Journal of General Physiology. (*J. gen. Physiol.*) (Schofield)
 Journal of General Psychology. (*J. gen. Psychol.*) (Schofield)
 Journal of Genetic Psychology. (*J. genet. Psychol.*) (Ammons)
 Journal of Gerontology. (*J. Geront.*) (Beebe)
 Journal of Heredity. (*J. Hered.*) (Schwesinger)
 Journal of Higher Education. (*J. higher Educ.*) (Murphy)
 Journal of the History of Medicine. (*J. Hist. Med.*) (Sumner)
 Journal of Home Economics. (*J. Home Econ.*) (Kuhlen)
 Journal of Laboratory and Clinical Medicine. (*J. Lab. clin. Med.*)
 Journal Lancet. (*J. Lancet*) (Louttit)
 Journal of Mammalogy. (*J. Mammal.*)
 Journal of Mental Science. (*J. ment. Sci.*) (Wilkins)
 Journal of Musicology. (*J. Musicol.*) (Farnsworth)
 Journal of the National Association of Deans of Women. (*J. nat. Ass. Deans Wom.*) (Kuhlen)
 Journal of National Education Association. (*J. nat. Educ. Ass.*) (Gehlmann)
 Journal of Negro Education. (*J. Negro Educ.*) (Burton)
 Journal of Nervous and Mental Diseases. (*J. nerv. ment. Dis.*) (Heathers)
 Journal of Neuropathology and Experimental Neurology. (*J. Neuropath. exp. Neurol.*) (Sumner)
 Journal of Neurophysiology. (*J. Neurophysiol.*) (Neff)
 Journal of Neurosurgery. (*J. Neurosurg.*)
 Journal of the Optical Society of America. (*J. opt. Soc. Amer.*) (Riggs)
 Journal of Parapsychology. (*J. Parapsychol.*) (Humphrey)
 Journal of Pediatrics. (*J. Pediat.*) (Templin)
 Journal of Personality. (*J. Personality*) (Wilson)
 Journal of Physiology. (*J. Physiol.*) (Pennington)
 Journal de Psychologie Normale et Pathologique. (*J. Psychol. norm. path.*) (Sheehan)
 Journal of Psychology. (*J. Psychol.*) (Mercer)
 Journal of Rehabilitation. (*J. Rehabil.*) (Long)
 Journal of Research of the Bureau of Standards. (*J. Res. Bur. Stand., Wash.*) (Louttit)
 Journal of the Royal Statistical Society. (*J. roy. statist. Soc.*) (Degan)
 Journal of Social Case Work. (*J. soc. Casewk*) (Weitz)
 Journal of Social Issues. (*J. soc. Issues*) (Hanks)
 Journal of Social Psychology. (*J. soc. Psychol.*) (Kimble)
 Journal of Speech Disorders. (*J. Speech Disorders*) (Palmer)
 Journalism Quarterly. (*Journ. Quart.*) (Goertzel)
 Lancet. (*Lancet*) (Hoffman)
 Laryngoscope, St. Louis. (*Laryngoscope, St. Louis*) (Hoffman)
 Letras, Organo de La Facultad de Letras, Universio de Nacional Mayor de San Marcos. (*Letras, U. nac. San Marcos*)
 Library Journal. (*Libr. J.*) (Louttit)
 Man. (*Man*) (Hoffman)
 Management Review. (*Mgmt Rev.*) (Gehlmann)
 Marriage and Family Living. (*Marriage Fam. Living*) (McCabe)
 Mechanical Engineering. (*Mech. Engng, N.Y.*) (Louttit)
 Medical Clinics of North America. (*Med. Clin. N. Amer.*) (Sumner)
 Medical Press. (*Med. Pr.*) (Sumner)
 Medical Record. (*Med. Rec., N.Y.*) (Erickson)
 Medico-Legal and Criminological Review, London. (*Med.-Leg. Rev.*) (Sumner)
 Mental Health, London. (*Ment. Hlth, Lond.*) (Wright)
 Mental Hygiene. (*Ment. Hyg., N.Y.*) (Wilkins)
 Mental Hygiene Survey. (*Ment. Hyg. Surv.*)
 Microfilm Abstracts. (*Microfilm Abstr.*) (Office)
 Milbank Memorial Fund Quarterly. (*Milbank mem. Fd. Quart.*)
 Military Review, Fort Leavenworth. (*Milit. Rev., Ft. Leavenworth*) (Seidenfeld)
 Military Surgeon. (*Milit. Surg.*) (Knox)¹¹
 Mill and Factory. (*Mill & Fact.*) (Rothe)
 Mind. (*Mind*) (Heider)
 Modern Industry. (*Mod. Industr.*) (Gehlmann)ⁱ
 Modern Management. (*Mod. Mgmt*) (Husband)
 Monatsschrift für Kinderheilkunde. (*Mschr. Kinderheilk.*) (Templin)
 Monatsschrift für Psychiatrie u. Neurologie. (*Mschr. Psychiat. Neurol.*)
 Monographs of the Society for Research in Child Development. (*Monogr. Soc. Res. Child Developm.*)
 Music Educators Journal. (*Music Educators J.*) (Farnsworth)
 Music Journal. (*Music J.*) (Farnsworth)
 Music Library Association. (*Music Libr. Ass.*) (Farnsworth)
 Music Quarterly. (*Music Quart.*) (Farnsworth)
 Nation's Schools. (*Nation's Schs*) (Speer)
 Nature, London. (*Nature, Lond.*) (Hoffman)
 Nederlands Tijdschrift voor Philosophie en Wijsbegeerte de Idee. (*Ned. Tijdschr. Phil. Wijsb. Idee*) (Teco)
 Nederlands Tijdschrift voor Psychologie. (*Ned. Tijdschr. Psychol.*) (Teco)
 Nervenarzt. (*Nervenarzt*)
 Nervous Child. (*Nerv. Child*) (Speer)
 New England Journal of Medicine. (*New Engl. J. Med.*) (Badenhausen)
 New Scholasticism. (*New Scholast.*) (Speer)
 New Zealand Medical Journal. (*N.Z. med. J.*)
 Newsletter, American Association of Psychiatric Social Workers. (*Newslett. Amer. Ass. psychiat. Soc. Wkrs.*)
 Norsk Pedagogisk Tidsskrift. (*Norsk pedagog. Tidsskr.*) (Reymert)
 Noticiario del Instituto Internacional Americano de Protección a la Infancia. Suplemento del Boletín. (*Bol. Inst. int. amer. Prot. Infanc. Suppl.*) (Office)

- Nouvelle Revue pédagogique. (*Nouv. Rev. pédag.*) (Piret)
- Occupational Medicine. (*Occup. Med.*) (Eves)
- Occupational Psychology. (*Occup. Psychol., Lond.*) (Speer)
- Occupational Therapy & Rehabilitation. (*Occup. Ther. Rehabil.*) (Speer)
- Occupations, the Vocational Guidance Journal. (*Occupations*) (Speer)
- Ohio State Medical Journal. (*Ohio St. med. J.*) (Knox)
- Ophthalmic Literature. (*Ophthal. Lit.*) (Office)
- Ophthalmologica. (*Ophthalmologica*) (Ross)
- Optometric Weekly. (*Optom. Wkly*) (Shaad)
- Outlook for the Blind. (*Outlook for the Blind*) (Maxfield)
- Peabody Bulletin. (*Peabody Bull.*) (Cuff)
- Peabody College Contributions to Education. (*Peabody Coll. contr. Educ.*) (Cuff)
- Peabody Journal of Education. (*Peabody J. Educ.*) (Cuff)
- Peabody Reflector. (*Peabody Reflector*) (Cuff)
- Pediatría Américas, México. (*Pediat. Amér., Méx.*)
- Personnel. (*Personnel*) (Siegel)
- Personnel Journal. (*Personnel J.*) (Mitchell)
- Personnelogram. (*Personnelogram*) (Gehlmann)
- Philosophical Review. (*Phil. Rev., N.Y.*) (Cooper)
- Philosophy and Phenomenological Research. (*Phil. phenomenol. Res.*) (Heider)
- Philosophy of Science. (*Phil. Sci.*) (Heider)
- Physiological Review. (*Physiol. Rev.*) (Badenhausen)
- Physiological Zoology. (*Physiol. Zool.*) (Hoffman)
- Physiotherapy Review. (*Physiother. Rev.*)
- Police Journal, New York. (*Police J., N.Y.*) (Speer)
- Police Journal, London. (*Police J., Lond.*) (Speer)
- Postgraduate Medicine. (*Postgrad. Med.*)
- Practitioner. (*Practitioner*) (Speer)
- Probation. (*Probation*) (Speer)
- Proceedings, Institute of Child Research, Clinic, Woods Schools. (*Proc. Inst. Child. Res., Clin. Woods Schs.*) (Long)
- Proceedings, Indiana Academy of Science. (*Proc. Ind. Acad. Sci.*) (Hill)
- Proceedings, Music Teachers National Association. (*Proc. Music Teach. nat. Ass.*) (Farnsworth)
- Proceedings of the National Academy of Sciences. (*Proc. nat. Acad. Sci., Wash.*) (Pennington)
- Proceedings of the Oklahoma Academy of Science. (*Proc. Okla. Acad. Sci.*) (Wilson)
- Proceedings of the Royal Society of London, Series A. (*Proc. roy. Soc. Ser. A*)
- Proceedings of the Royal Society of London, Series B. (*Proc. roy. Soc. Ser. B*) (Hoffman)
- Proceedings of the Royal Society of Medicine, London. (*Proc. roy. Soc. Med.*)
- Proceedings of the Society for Experimental Biology and Medicine, New York. (*Proc. Soc. exp. Biol., N.Y.*) (Pennington)
- Proceedings of the Society for Psychical Research, London. (*Proc. Soc. psych. Res., Lond.*) (Humphrey)
- Progressive Education. (*Progr. Educ.*) (Kuhlen)
- Psicoanalisi. (*Psicoanalisi*)
- Psyche, a journal of Entomology. (*Psyche, Camb., Mass.*) (Hoffman)
- Psychiatric Quarterly. (*Psychiat. Quart.*) (Benton)
- Psychiatric Quarterly Supplement. (*Psychiat. Quart. Suppl.*) (Artus)
- Psychiatry. (*Psychiatry*) (Erickson)
- Psychoanalytic Quarterly. (*Psychoanal. Quart.*) (Erickson)
- Psychoanalytic Review. (*Psychoanal. Rev.*) (Heathers)
- Psychodrama Monographs. (*Psychodrama Monogr.*)
- Psychological Bulletin. (*Psychol. Bull.*) (Ross)
- Psychological Monographs. (*Psychol. Monogr.*) (Seidenfeld)
- Psychological Review. (*Psychol. Rev.*) (Tinker)
- Psychologický Sborník. (*Psychol. Sborník*)
- Psychometrika. (*Psychometrika*) (Stone)
- Psychosomatic Medicine. (*Psychosom. Med.*) (Cabot)
- Psychosomatic Medicine, Monograph Supplementa. (*Psychosom. Med. Monogr.*) (Cabot)
- Psychotechniek. (*Psychotechniek*)
- Public Opinion Quarterly. (*Publ. Opin. Quart.*) (Rothe)
- Public Personnel Review. (*Publ. Personnel Rev.*) (Rothe)
- Publicaciones del Instituto de Psicología Experimental, Univ. Cuyo. (*Publ. Inst. Psicol. exp., Univ. Cuyo*)
- Publishers Weekly. (*Publ. Wkly*) (Louttit)
- Purdue University Studies in Higher Education. (*Purdue Univ. Stud. higher Educ.*)
- Quarterly Journal of Experimental Physiology. (*Quart. J. exp. Physiol.*) (Pennington)
- Quarterly Journal of Speech. (*Quart. J. Speech*) (Mathews)
- Quarterly Journal of Studies in Alcohol. (*Quart. J. Stud. Alcohol*) (Wilkins)
- Quarterly Review of Biology. (*Quart. Rev. Biol.*) (Kappaul)
- Quarterly Review of Psychiatry and Neurology. (*Quart. Rev. Psychiat. Neurol.*) (Henry)
- Race Relations: Official organ of the South African Institute of Race Relations. (*Race Relat., Johannesburg*) (Reyna)
- Religious Education. (*Relig. Educ.*) (Speer)
- Report. National Opinion Research Center. (*Rep. nat. Opin. Res. Cent.*) (Gage)
- Research Quarterly of the American Association for Health, Physical Education and Recreation. (*Res. Quart. Amer. Ass. Hlth*) (Seidenfeld)
- Review of Educational Research. (*Rev. educ. Res.*) (Brickman)
- Review of Scientific Instruments. (*Rev. sci. Instrum.*)
- Revista America de Educacion. (*Rev. Amer. Educ.*) (Moseley)
- Revista de Educacion. (*Rev. Educ., La Plata*) (Gladstone)
- Revista del Instituto nacional de Pedagogia, México. (*Rev. Inst. nac. Pedagog., Méx.*) (Moseley)
- Revista de Medicina Legal de Colombia. (*Rev. Med. legal Colombia*) (Sumner)
- Revista Mexicana de Psiquiatria, Neurologia y Medicina Legal. (*Rev. mex. Psiquiat. Neurol.*)
- Revista Mexicana de Sociologia. (*Rev. mex. Sociol.*)
- Revista Neurológica. (*Rev. Neurol.*) (Sumner)
- Revista de Neurologia e Psiquiatria de São Paulo. (*Rev. Neurol. Psiquiat. S. Paulo*)
- Revista de Neuro-Psiquiatria, Lima. (*Rev. Neuro-Psiquiat., Lima.*) (Sumner)
- Revista de Psicoanálisis, Buenos Aires. (*Rev. Psicoanál., B. Aires*) (Levine)
- Revista de Psicología general y aplicada. (*Rev. Psicol. gen. apl., Madrid*) (Smith)
- Revue Canadienne de Biologie. (*Rev. canad. Biol.*) (Spelt)
- Revue médicale française. (*Rev. méd. franç.*) (Sumner)
- Revue médicale de la Suisse romande. (*Rev. méd. Suisse rom.*)
- Revue de Psychologie. (*Rev. Psychol., Montreal*) (Husband)
- Revue des Sciences pédagogiques. (*Rev. Sci. pédag.*) (Piret)
- Rivista di Psicologia Normale e Patologica. (*Riv. Psicol. norm. patol., Ferrara*)

- Rorschach Research Exchange. (*Rorschach Res. Exch.*) (Burchard)
- Sammlung. (*Die*) (*Sammlung*) (Bondy)
- Sankhyā The Indian Journal of Statistics. (*Sankhyā Indian J. Statist.*) (Metzner)
- School. (*School*) (Speer)
- School Review. (*Sch. Rev.*) (Strassburger)
- School Science and Mathematics. (*Sch. Sci. Math.*) (Speer)
- School and Society. (*Sch. & Soc.*) (Strassburger)
- Schweizer Archiv für Neurologie und Psychiatrie. (*Schweis. Arch. Neurol. Psychiat.*) (Sumner)
- Schweizerische medizinische Wochenschrift. (*Schweis. med. Wschr.*) (Sumner)
- Schweizerische Zeitschrift für Psychologie und ihre Anwendungen. (*Schweis. Z. Psychol. Anwend.*) (Muenzinger)
- Science. (*Science*) (Mote)
- Scientific Monthly, New York. (*Sci. Mon., N. Y.*) (Girden)
- Secondary Education. (*Secondary Educ.*) (Gehlmann)
- Semaine des Hôpitaux de Paris. (*Sem. Hôp. Paris*) (Sumner)
- Semana médica española. (*Sem. méd. esp.*) (Sumner)
- Sight-saving Review. (*Sight-sav. Rev.*) (Maxfield)
- Smith College Studies in Social Work. (*Smith Coll. Stud. soc. Wk*) (Jones)
- Social Service Review. (*Soc. Serv. Rev.*) (Speer)
- Sociatry: Journal of group and intergroup therapy. (*Sociatry*) (Ammons)
- Sociology and Social Research. (*Sociol. soc. Res.*) (Nowlis)
- Sociometry. (*Sociometry*) (Nowlis)
- Sociometry Monographs. (*Sociometry Monogr.*) (Reyna)
- South African Journal of Science. (*S. Afr. J. Sci.*) (Reyna)
- South African Medical Journal. (*S. Afr. med. J.*) (Reyna)
- Southern Medical Journal, Birmingham. (*Sth. med. J., Bgham*) (Sumner)
- Speech Monographs. (*Speech Monogr.*) (Office)
- Statistical Bulletin, Metropolitan Life Insurance Co. (*Statist. Bull. Metrop. Life Insur.*) (Office)
- Studies in Psychology and Psychiatry from the Catholic University of America. (*Stud. Psychol. Psychiat. Cathol. Univ. Amer.*) (Lima)
- Suplemento del Boletín del Instituto Psicopedagógico Nacional, Lima. (*Supl. bol. Inst. psicopedag. nac., Lima*) (Louttit)
- Survey Graphic. (*Survey Graphic*) (Louttit)
- Teachers College Contributions to Education. (*Teach. Coll. Contr. Educ.*) (Bird)
- Teachers College Record. (*Teach. Coll. Rec.*) (Bird)
- Texas Personnel Review. (*Tex. Personnel Rev.*) (Speer)
- Theoria. (*Theoria*) (Muenzinger)
- Tidskrift för Psykologi och Pedagogik. (*Tidskr. Psykol. Pedag.*) (Bondy)
- Tijdschrift voor Philosophie. (*Tijdschr. Phil.*) (Piret)
- Training School Bulletin. (*Train. Sch. Bull.*) (Wilkins)
- Transactions of the American Academy of Ophthalmology and Otolaryngology. (*Trans. Amer. Acad. Ophthal. Otolaryng.*) (Sumner)
- Transactions of the Kansas Academy of Science. (*Trans. Kans. Acad. Sci.*) (Varvel)
- Transactions of the New York Academy of Sciences. (*Trans. N. Y. Acad. Sci.*) (Finger)
- Travail Humain. (*Travail hum.*) (Brožek)
- Trudy fiziologicheskoy Laboratorii im I. P. Pavlova. (*Trud. fisiol. Lab. Pavlova.*) (Boguslavsky)
- Understanding the Child. (*Understanding the Child*) (Gewirtz)
- University of Illinois Bulletin. (*Univ. Ill. Bull.*) (Rouse)
- U. S. Naval Medical Bulletin. (*Nav. med. Bull., Wash.*) (Rouse)
- Virginia Medical Monthly. (*Virginia med. Mon.*) (Piret)
- Vlaamsch Opvoedkundig Tijdschrift. (*Vlaam. Opvoedk. Tijdschr.*) (Piret)
- Vrachebnoye Dyelo. (*Vrach. Dyelo*) (Myklebust)
- Volta Review. (*Volta Rev.*) (Myklebust)
- Wendepunkt, Zurich. (*Wendepunkt.*) (Sumner)
- Wiener klinische Wochenschrift. (*Wien. klin. Wschr.*) (Sumner)
- Wiener medizinische Wochenschrift. (*Wien. med. Wschr.*) (Sumner)
- Wiener Zeitschrift für Philosophie, Psychologie, Pädagogik. (*Wien. Z. Phil. Psychol. Pädag.*) (Bondy)
- Yale Journal of Biology and Medicine. (*Yale J. Biol. Med.*) (Hoffman)
- Zeitschrift für Kinderforschung. (*Z. Kinderforsch.*) (Templin)
- Zeitschrift für Kinderheilkunde. (*Z. Kinderheilk.*) (Templin)
- Zeitschrift für Kinderpsychiatrie. (*Z. Kinderpsychiat.*) (Lassner)
- Zeitschrift für vergleichende Physiologie. (*Z. vergl. Physiol.*) (Sumner)

IX. ABSTRACTORS

The following list includes the names and addresses of all collaborators who have had one or more abstracts in the present volume.

- Adams, C. R., 210-C Burrowes Bldg., State College, Pa.
- Ammons, R. B., U. Denver, Colo.
- Ansbacher, H. L., U. Vermont, Burlington
- Artley, A. S., U. Missouri, Columbia
- Artus, W. E., Queens Coll., Flushing, N. Y.
- Bartlett, N. R., Hobart Coll., Geneva, N. Y.
- Bauer, R., 111 Willoughby St., Chevy Chase, Md.
- Beach, F. A., Yale U., New Haven, Conn.
- Beaumont, H., (Deceased)
- Beebe, R. W., 3971 Langley Ct., Washington, D. C.
- Benton, A. L., Louisville Mental Hygiene Clinic, Louisville 2, Ky.
- Berrien, F. K., Utica-Colgate Counseling Service, 110 Genesee St., Utica, N. Y.
- Bird, G. E., 157 Cypress St., Providence, R. I.
- Bondy, G., William and Mary Coll., Richmond, Va.
- Brickman, W. W., 1325 Edw. L. Grant Highway, Bronx 52, N. Y.
- Bromiley, R. B., Johns Hopkins Med. Sch., Baltimore, Md.
- Brožek, J., U. Minnesota, Minneapolis 14
- Browne, C. G., Ohio State U., Columbus 10
- Bryan, A. I., School Library Service, Columbia U., New York 27
- Bunzel, J. H., Fisk U., Nashville 8, Tenn.
- Burchard, E. M. L., Vet. Adm., 175 Washington St., Boston, Mass.
- Burton, A., U. Idaho, Pocatello
- Burt, H. E., Willamette U., Salem, Ore.
- Cabot, P. S. deQ., 8480 Beverly Blvd., Los Angeles, Calif.
- Calabresi, R., 10 Myrtle St., White Plains, N. Y.
- Chapanis, A., Johns Hopkins U., Baltimore, Md.

- Child, I. L., Yale U., New Haven, Conn.
 Cooksley, F. A., Box 634, Franklin Sta., Washington 4, D. C.
 Cooper, C. C., Wilson Coll., Chambersburg, Pa.
 Corona, G. I., New Jersey Sch. for Deaf, West Trenton, N. J.
 Corsini, R. J., Guidance Center, San Quentin Prison, Calif.
 Cuff, N. B., Eastern Kentucky St. Teachers Coll., Richmond
- Daniel, R. S., U. Missouri, Columbia
 David, H. P., U. Cincinnati, O.
 Dennis, W., U. Pittsburgh, Pa.
 Deussen, J., Plankstadt (Baden), Moltkestrasse 25, Germany
 Dotterer, R. H., Pennsylvania State Coll., Pa.
 Dulsky, S. G., Chicago Psychological Inst., 410 S. Michigan Ave., Chicago 5, Ill.
- Ellwyn, C., U. Chicago, Ill.
 Ericksen, S. C., Vanderbilt U., Nashville, Tenn.
 Erickson, M. H., Wayne Co. General Hosp., Eloise, Mich.
 Eves, B. M., U. Pennsylvania, Philadelphia
- Farnsworth, P. R., Stanford U., Calif.
 Fehrer, E., George Washington U., Washington, D. C.
 Feifel, H., 1547 Pitkin Ave., Brooklyn 12, N. Y.
 Festinger, L., Massachusetts Inst. Technology, Cambridge
 Fiedler, M. F., Vassar Coll., Poughkeepsie, N. Y.
 Finger, F. W., U. Virginia, Charlottesville
 Fluge, F., 10628 Blythe Ave., Los Angeles 34, Calif.
 Franklin, J. C., Box 501, West Lafayette, Ind.
 Froelich, C. P., U. S. Office of Education, Washington, D. C.
 Fulcher, J. S., Brown U., Providence, R. I.
- Gage, N. L., Purdue U., Lafayette, Ind.
 Garner, W. R., Johns Hopkins U., Baltimore, Md.
 Gehlmann, F., 228 So. Wabash Ave., Chicago 4, Ill.
 Gewirtz, J. L., State U. Iowa, Iowa City
 Gibbard, H. A., U. Kansas, Lawrence
 Girden, E., U. Tennessee, Knoxville
 Gladstone, A., Yale U., New Haven, Conn.
 Glick, D. L., Tulane U., New Orleans, La.
 Goertzel, V., Wayne Co. General Hosp., Eloise, Mich.
 Goodenough, F. L., U. of Minnesota, Minneapolis
 Graubard, J. M., 14 Sidney Pl., Brooklyn 2, N. Y.
 Grether, W. F., Aero Med. Lab., Wright Field, Dayton, O.
 Groves, M., U. California, Santa Barbara
- Hanks, L. M., Jr., Bennington Coll., Bennington, Vt.
 Harsh, C. M., U. Nebraska, Lincoln
 Headlee, Ray, U. Wisconsin Ext. Div., Milwaukee
 Heathers, L. B., 3054 E. 97th St., Seattle 5, Wash.
 Heider, F., 505 Ohio St., Lawrence, Kans.
 Henry, C. E., Inst. Juvenile Res., 907 So. Wolcott Ave., Chicago, Ill.
 Herman, D., Louisiana State U., Baton Rouge
 Hilgard, E. R., Stanford U., Calif.
 Hill, H., Indiana U., Bloomington
 Hobbs, N., Teachers Coll., Columbia U., New York
 Hoffman, A. C., Tufts Coll., Medford 55, Mass.
 Humphrey, B. M., Duke U., Durham, N. C.
 Husband, R. W., Iowa State Coll., Ames
- Jacobsen, O. I., 5403 Lake Park Ave., Chicago 15, Ill.
 Jenkins, J. G., U. Maryland, College Park
 Johansen, D. E., Tufts Coll., Medford 55, Mass.
 Johnson, E. P., Brown U., Providence, R. I.
 Jones, M. R., State U. Iowa, Iowa City
- Kane, J. J., Sampson Coll., Sampson, N. Y.
 Kappauf, W. E., Princeton U., N. J.
 Kavruk, S., 1811 Irving St., Washington, D. C.
 Kimble, G. A., Brown U., Providence, R. I.
 Klein, G. S., The Menninger Clinic, Topeka, Kans.
 Knox, G. W., Ohio State U., Columbus 10
 Kohler, F. J., Loyola U., Chicago 26, Ill.
 Kuhlen, R. G., Syracuse U., Syracuse, N. Y.
- Lassner, R., 140 S. 6th St., Richmond, Calif.
 LeShan, L., 919 Main St., Worcester, Mass.
 Littman, R. A., Ohio Wesleyan U., Delaware
 Long, L., College of the City of New York, N. Y.
 Loudon, M. V., U. Pittsburgh, Pa.
 Louttit, C. M., U. Illinois, Galesburg, Ill.
- Mallory, E. B., 61 Hedge Rd., Brookline, Mass.
 Maslow, P., 16 Court St., Brooklyn, N. Y.
 Maxfield, K. E., 603 W. 111th St., New York 25, N. Y.
 McCabe, L. H., 61 Lexington Ave., Cambridge 38, Mass.
 Mead, L. C., Box 272, Port Washington, N. Y.
 Mercer, M., Vet. Adm. Hosp., Coatesville, Pa.
 Mitchell, M. B., 1015 W. 37th St., Minneapolis 8, Minn.
 Mold, H. P., The Mead Corp., Chillicothe, O.
 Moore, H., Stevenson & Kellogg, Ltd., 812 Canada Permanent Bldg., Toronto, Canada
 Morlan, G. K., Springfield Coll., Springfield, Mass.
 Mote, F. A., U. Wisconsin, Madison
 Muench, G. A., U. Louisville, Ky.
 Muenzinger, K. F., U. Colorado, Boulder
 Munn, N. L., Bowdoin Coll., Brunswick, Me.
 Murphy, M., U. Pennsylvania, Philadelphia
 Myklebust, H. R., New Jersey Sch. for the Deaf, West Trenton, N. J.
- Nagge, J. W., Kansas State Teachers Coll., Emporia
 Neff, W. D., U. Chicago, Ill.
 Newland, T. E., U. S. Military Academy, West Point, N. Y.
 Norman, R. D., 80-C Throckmorton Ave., Red Bank, N. J.
 Nowlis, H. H., Iowa Child Welfare Research Station, State U., Iowa City
- O'Kelly, L. I., U. Colorado, Boulder
 Orleans, M., Sampson Coll., Sampson, N. Y.
 Oswalt, E. R., Kent State U., Kent, O.
- Page, H. E., U. S. Naval Air Station, Pensacola, Fla.
 Pennington, L. A., U. Illinois, Urbana
 Perl, R. E., 413 Beach St., Belle Harbor, L. I., N. Y.
 Pfaffmann, C., Brown U., Providence, R. I.
 Piret, R., Université de Liège, Liège, Belgium
 Plumlee, L. B., Box 592, Princeton, N. J.
- Rabin, A., 105 Pleasant St., Concord, N. H.
 Raskin, E., 50 Lincoln Rd., Brooklyn 25, N. Y.
 Reymert, M. L., Laboratory for Child Research, Mooseheart, Ill.
 Riggs, L. A., Brown U., Providence, R. I.
 Roberts, S. O., Fisk U., Nashville 8, Tenn.
 Ross, S., Bucknell U., Lewisburg, Pa.
 Rothe, H. F., Stevenson, Jordan & Harrison, Inc., 205 W. Wacker Dr., Chicago 6, Ill.
 Rotter, J. B., Ohio State U., Columbus 10
 Rouse, R. O., Yale U., New Haven, Conn.
- Saenger, G., 50 E. 86th St., New York
 Sarason, S. B., Yale U., New Haven, Conn.
 Schneirla, T. C., American Museum of Natural History, New York
 Schwesinger, G. C., Box 170, Ventura, Calif.
 Scofield, C. F., U. Buffalo, N. Y.
 Seidenfeld, M. A., 120 Broadway, New York 5

- Seidler, R., 53 Fordham Dr., Buffalo 16, N. Y.
 Shaad, D. J., 2119 W. 42nd Ave., Kansas City 3, Kans.
 Sheehan, M., 310 W. 85th St., New York 24
 Shen, E., Chinese National Association of Vocational Education, Shanghai, China
 Siegel, M., Vet. Adm., 909 Sheridan Ave., New York 56
 Sless, B., 201 East 57th St., New York 22
 Solomon, R. L., Brown U., Providence, R. I.
 Speer, G. C., Illinois Inst. Technology, Chicago 3
 Spelt, D. K., Muhlenburg Coll., Allentown, Pa.
 Spoerl, H. D., 63 Edgewood St., Springfield 9, Mass.
 Sproh, A. J., 31 S. Walnut St., Akron, O.
 Stark, V. M., 921 Bergen Ave., Jersey City 6, N. J.
 Staudt, V. M., Notre Dame Coll. of Staten Island, N. Y.
 Steiner, L. R., 114 W. 61st St., New York 23
 Stoll, M. R., 412 Louise Ave., Charlotte 4, N. C.
 Stone, C. P., Stanford U., Calif.
 Stone, L. J., Vassar Coll., Poughkeepsie, N. Y.
 Strassburger, R. C., St. Joseph's Coll. for Women, Brooklyn, N. Y.
 Sumner, F. C., Howard U., Washington, D. C.
 Taylor, D. W., Stanford U., Calif.
 Thacker, L. H., San Jacinto Hotel, Houston, Tex.
 Thompson, G. G., Syracuse U., Syracuse, N. Y.
 Timm, L., U. Buffalo, N. Y.
 Tinker, M. A., U. Minnesota, Minneapolis
 Turchioe, R. M., Bureau Child Guidance, 1550 Crotona Park East, Bronx 60, N. Y.
 Varvel, W. A., Texas A & M, College Station
 Vernon, M. D., U. Cambridge, England
 Wagoner, K. S., DePauw U., Greencastle, Ind.
 Wapner, S., Brooklyn Coll., Brooklyn 10, N. Y.
 Weitz, R. D., 921 Bergen Ave., Jersey City 6, N. J.
 Wekstein, L., 547 Blue Hill Ave., Grove Hall 21, Mass.
 Wilke, W. H., 54 So. Bldg., Washington Square East, New York
 Wilkins, W. L., 1645 O'Brien St., South Bend, Ind.
 Williams, R. W., 4717 29th St. South, Arlington, Va.
 Williams, S. B., Johns Hopkins U., Baltimore, Md.
 Wilson, M. O., Oklahoma U., Norman
 Wright, B. A., 4907 Pierson St., Oakland 2, Calif.
 Wright, M. E., 4907 Pierson St., Oakland 2, Calif.
 Zubin, J., Psychiatric Inst., New York

AUTHOR INDEX

- Aaron, S., 2667
 Abbott, J. A., 2861(a)
 Abe, S., 4524
 Abel, T. M., 332, 2332, 2448, 2742
 Abelson, H. H., 3133
 Abenheimer, K. M., 166, 1057, 2603
 Abney, L., 3997
 Abou Zeid, A., 1843
 Abrahams, J., 1889
 Abrahamsen, D., 167, 2090, 3780
 Abt, L. E., 3705
 Abts, D. M., 1172
 Acheson, E. L., 176
 Achilles, P. S., 2087
 Ackery, S., 3628
 Ackerman, N. W., 3040, 4533(a)
 Ackeson, G. H., 92
 Ackoff, R. L., 648, 1522, 4135
 Adams, C. R., 177, 820, 1966
 Adams, D. K., 2271
 Adams, E. Q., 1009(a)
 Adams, K., 2385
 Adams, R. G., 1538(a)
 Adamson, G. L., 4455
 Adcock, C. J., 333
 Adelsberger, L., 4507
 Adkins, D. C., 302, 905
 Adler, A., 1071, 2203, 2229
 Adler, F., 2068
 Adler, M. H., 449
 Adlerblum, E. D., 3589
 Adorno, T. W., 1949
 Adriaanse, A., 3896
 Adrian, E. D., 31, 645, 3824(a)
 Affleck, J. W., 3070
 Agarwal, R. S., 369, 1010, 1011, 1764
 Agoston, T., 805
 Agreda, M. J., 4069
 Ahronheim, J. H., 2236
 Akhlananda, S., 334
 Albanese, P., 4445
 Albens, M. E., 3735
 Albersheim, W. J., 3442
 Albrecht, R., 919
 Aldrich, C. A., 312, 922
 Alessi, S. L., 337
 Alexander, C., 178, 179, 1173
 Alexander, F., 726, 821
 Alexander, H. W., 1032
 Alexander, Sister M., 3489
 Allan, D. M., 2310
 Allen, E. B., 1072
 Allen, F. H., 801
 Allen, L. B., 3187
 Allen, W. F., 2145, 3463, 3928(a), 3929(a)
 Allen, R., 4196
 Allied forces, Supreme headquarters, 1839
 Allison, L. W., 961, 1058, 1059
 Allport, F. H., 180
 Allport, G. W., 1033, 2339, 3674
 Alper, T. G., 69, 1151
 Alpern, M., 3416
 Alpers, B. J., 1004
 Alpert, A., 1474
 Alschuler, R. H., 2311
 Alsop, G. F., 4152
 Alström, C. H., 1469
 Alt, H., 2499, 2721
 Altshuler, J. P., 2673
 Altschule, M. D., 3080
 Altschuler, I. M., 113, 2645
 Altus, W. D., 450, 1073, 1307
 Alvarez, W. C., 4456
 Amatore, Sister M., 4638(a)
 American Psychological Association, 646, 3359
 Ames, A., Jr., 32
 Ames, L. B., 1684
 Ammons, R. B., 4326(a)
 Amoroso, M. D., 3898(a), 3954(a)
 Anastasi, A., 1737
 Anastasio, M. M., 1980
 Ancona, N., 3134(a)
 Anders, Q. M., 1486(a)
 Anderson, B., 1074
 Anderson, C. L., 2500(a)
 Anderson, G. V., 516
 Anderson, H. H., 746, 1174, 2786
 Anderson, H. R., 1244
 Anderson, J. E., 313, 2508, 2837
 Anderson, M. K., 4582
 Anderson, R. C., 2171
 Anderson, R. G., 3283
 Anderson, T. W., 1350
 Anderson, W. E., 873, 1922
 Andrew, C. I., 3456
 Andrews, D. H., 4197
 Andrews, J. F., 1623(a)
 Andrus, T. O., 1540
 Annis, A. D., 2401(a)
 [Anon.], 33, 1003, 1152, 1364, 1369, 1765, 1903, 2553, 3516, 4219
 Ananell, F. C., 1075
 Anson, B. J., 1766, 2105, 3517
 Antoni, N., 3540
 Apfelberg, B., 4079
 Apicella, F. S., 2931
 Appel, J. W., 451, 3549
 Appel, K. E., 2646, 3533
 Appel, L., 1360
 Aptheker, H., 593
 Arbuse, D. I., 3019
 Arce, D. L., 4569
 Arief, A. J., 3388, 4070
 Armstrong, C. F., 2088
 Armstrong, E. A., 3470
 Armstrong, P. B., 1433
 Armstrong, T. G., 2272
 Arnfred, A. H., 3545
 Arnheim, R., 3209
 Arnold, D. L., 594
 Arnold, G., 3998
 Arnold, M. B., 677(a), 4239(a)
 Aroian, L. A., 4207
 Arrington, W. W., 4002
 Arroyo, K. C., 4631
 Arthur, G., 1499, 2273, 2487, 4658
 Arthur, J. K., 3999
 Aschkenasy-Lelu, P., 4292
 Ash, F. E., 2449(a)
 Ash, P., 4071
 Ashby, M. C., 1863
 Ashby, W., 2617
 Ashby, W. R., 1385, 1707, 3817
 Asher, E. J., 1714
 Asthana, H. S., 3952
 Atkin, L., 452
 Atkinson, D. W., 2634
 Atkinson, M., 2911
 Atreya, B. L., 3953
 Atwood, J. H., 2722
 Australia, Department of Labour & National Service, Industrial Welfare Division, 1983
 Averill, L. A., 1500, 1501
 Ax, A. F., 3135
 Axelrod, F. L., 3625
 Axline, V. M., 3736
 Babcock, C. G., 4033
 Babaky, E. B., 1741, 1817
 Bach, G. R., 314, 631, 4570
 Backstrom, O., Jr., 4583
 Backus, O. L., 3580
 Backus, R., 3295
 Baer, M., 2562
 Baer, M. F., 4123
 Baetjer, A. M., 1224
 Bagh, D., 3931
 Baier, D. E., 4584(a)
 Bailey, A. T., 315
 Bain, R., 4508
 Baird, D., 2386
 Baird, J. H., 2964, 3518
 Bak, R. C., 453
 Baker, E., 4481
 Baker, G., 2521
 Baker, H., 2423
 Baker, H. J., 3741
 Baker, F. P., 3128
 Bakwin, H., 316
 Bakwin, R. M., 4404
 Baldau, F. W., 1940, 1941
 Baldwin, A. L., 3296
 Baldwin, F. M., 962
 Baldwin, G. B., 3766, 3767, 3768
 Baldwin, R. R., 2772
 Baliken, E. R., 2204, 2340
 Balikwill, N. F., 1802
 Ballard, L., 3982
 Ballin, H. M., 2867, 2868
 Bally, G., 963, 2051(a)
 Balmaceda de Josefé, E., 4608
 Sambaren, C. A., 1861
 Bamberger, P., 2770
 Bamford, T. E., Jr., 3524
 Banarer, J., 238, 901, 1237
 Banister, O. K., 2274
 Bankier, H. T., 2275(a)
 Bannan, R. E., 1391, 3407
 Banuelos, M., 3136, 3137
 Barach, A. L., 2172
 Barag, G. G., 517
 Barahal, H. S., 1923
 Barbara, D. A., 454, 747
 Barbu, V., 727
 Barcroft, H., 3818(a)
 Bard, P., 3897(a)
 Bare, J. K., 4293(a)
 Barela, F., 3257(a)
 Barker, M. E., 2787
 Barker, R., 2312
 Barker, R. G., 1153, 2805, 3564, 4153
 Barlow, H. B., 4250, 4251
 Barnard, C. L., 1984
 Barnard, G. A., 647
 Barnes, R. M., 2771
 Barnes, T. C., 678, 1005, 3393, 3825(a), 3826(a), 3827(a), 3828, 3898(a), 3954(a), 4240(a)
 Barnett, G. J., 1245
 Barnett, H. N., 370, 371
 Barr, A. S., 2424
 Barr, M. L., 1392
 Barrett, D. M., 1624
 Barrett, J. E., 748
 Barron, M. E., 3813
 Barron, M. L., 3188
 Barrow, D. W., 1799
 Bartemeier, L. H., 1076
 Bartlett, F. C., 1730, 3148
 Bartlett, M. S., 3341
 Bartlett, N. R., 2784, 3872, 4252(a)
 Bartley, S. H., 689
 Barton, W. B., 3593
 Baruch, D. W., 455, 1077, 1950
 Bassan, M. E., 2276
 Bassett, R. E., 1175
 Bast, T. H., 1766
 Bates, Z. M., 3737(a)
 Bateson, G., 3655
 Batterman, R. C., 2106
 Baumann, C., 3297
 Baumgarten, F., 114, 303, 1602, 2450, 2806, 2807, 2808, 4294, 4373
 Baumgarten-Tramer, F., 1717, 4357
 Bavelas, A., 4093
 Bawden, H. H., 1708
 Baxter, B., 2451
 Baxter, B. N., 3490
 Baxter, E. D., 564
 Baxter, R. G., 1225
 Bayer, L. M., 456, 1818
 Bayley, N., 456, 1818, 4405(a)
 Bayton, J. A., 1951, 3370
 Beach, F. A., 72
 Beach, B. B., 3475
 Bean, K. L., 874
 Bear, R. M., 4639(a)
 Beaton, L. E., 2260
 Bechtoldt, H. F., 4094, 4363(a)
 Beck, B. M., 1904
 Beck, C. F., 1246
 Beck, G., 3214
 Beck, L. F., 335
 Beck, L. H., 4253(a)
 Beck, S. J., 1370
 Becker, H., 3491
 Beckham, A. S., 1517
 Beckley, J. L., 2772
 Beckman, N., 1247
 Bedell, R. C., 4154
 Beebe, G. W., 451
 Beebe, H., 1775
 Beecher, H. K., 2600
 Beecher, W., 2277
 Beegle, J. A., 2730
 [Beers, A. H.], 1728
 Behrens, H. D., 2278
 Békésy, G., v., 3436
 Belinson, L., 457
 Bellak, L., 105, 1864, 1865, 3557, 4374(a), 4499(a)
 Bellows, R. M., 1361, 4585(a)
 Bellsmith, E. R., 115
 Benda, C. E., 458, 2998
 Bender, J. F., 2788
 Bender, L., 2225, 2507, 2604
 Bender, M. B., 1393, 1394
 Benedek, T., 2173
 Benedict, R., 2371
 Benesch, R., 116
 Benge, E. J., 1603, 3215
 Benjamin, A., 3298
 Benne, K. D., 1625, 3644
 Benner, L. W., 3959
 Bennett, E. A., 1078, 1079
 Bennett, G. K., 1682, 4095, 4609(a)
 Bennett, M. E., 875, 4124
 Bennett, M. W., 1674
 Béno, N., 3629
 Benowitz, H. H., 117
 Benson, B. E., 1604
 Benson, L. E., 181
 Bent, R. K., 876
 Bentley, M., 182, 272
 Benton, A. L., 4659
 Beranek, L. L., 3255
 Berdal, N. A., 688
 Berdie, R. F., 2146, 2341
 Berens, C., 73
 Beresin, M. A., 1135
 Berg, C., 3594
 Berg, I. A., 557
 Berg, W. C., 1565
 Bergler, E., 459, 749, 1060, 1154, 1873, 1874, 1924, 2230, 2743, 3081, 3082, 4430
 Bergman, P., 2205
 Bergmann, G., 2818
 Bergmann, M. S., 2313
 Berkson, J., 3796
 Berliner, B., 1952
 Berman, H. H., 4482
 Bernal del Riego, A., 964
 Bernaldo de Quirós, C., 3686
 Bernfeld, S., 440
 Bernhard, C. G., 1742
 Bernhardt, K. S., 4179
 Bernreuter, R. G., 4640(a)
 Bernstein, N., 1316
 Berrien, F. K., 3371
 Berry, C. M., 1743
 Berry, R. N., 4254(a)
 Berryman, G. H., 4295
 Bernot, H., 3629
 Bertocci, P. A., 2314
 Bettelheim, B., 2315, 3163, 4525(a)
 Betta, E. A., 877, 878, 879, 880
 Betts, G. L., 3769, 4208(a), 4576(a)
 Beta, B. J., 460
 Beutner, R., 1005, 3393, 3827(a)
 Beverly, B. L., 1683
 Bhattacharyya, H. D., 4060
 Biach, R. M., 2674
 Bibring, E., 2187
 Bibring, G. L., 3083
 Bice, R. C., 3770
 Bick, J. W., 1903
 Bidney, D., 4509
 Bienfang, R., 1767
 Bierns de Haan, J. A., 3783

- Biets, A. L., 1509(a)
 Bigelow, M. A., 518
 Biggar, J., 3960, 3990
 Bijou, S. W., 4457(a)
 Billig, A. L., 632
 Billings, E. G., 754, 3071
 Billings, R. M., 4458
 Bindra, D., 4296
 Bingham, W. V., 3246, 3723
 Bink, E. N., 4483
 Biot, M. A., 4235
 Birch, H. G., 519, 4563(a)
 Bird, C., 3372
 Birkhäuser, R., 2113
 Birnbaum, Z. W., 3342
 Birren, J. E., 81, 225, 3899
 Bitterman, M. E., 74, 204, 1395(a), 1396, 3408
 Bittner, R. H., 565, 4174
 Bixler, H. R., 226
 Bixler, R., 965
 Bixler, R. H., 882, 1371
 Black, M., 1034
 Blacker, C. P., 1541, 2174
 Blackman, N., 2647
 Blackwell, D., 3343
 Blackwell, E., 1080
 Blackwell, E. B., 1626
 Blackwell, H. R., 1012(a), 1013
 Blain, D., 1081, 1906, 2279, 2964
 Blair, H., 3482
 Blake, W. D., 2316
 Blanchard, B. E., 3647
 Blanché, R., 1768
 Blank, I. H., 2856
 Blankenship, A. B., 520
 Blasco y Fernández de Moreda, F., 3687
 Blau, A., 1434
 Bliss, D., 1686
 Bliss, H. E., 2541
 Blocksma, D. D., 3373
 Bloch, E., 2732
 Bloch, H. A., 1518
 Blodgett, H. C., 1807, 3931, 4327
 Bloom, B. S., 1627
 Bloom, L., 1664
 Bloss, P., 881
 Bluett, C. G., 3475, 3630
 Blumenfeld, W., 75, 966, 3284
 Blumer, S., 3519
 Boas, L. C., 1718, 1770
 Bodansky, O., 1397, 1744
 Boder, D. P., 3656
 Bodman, F., 184
 Boelter, L. M. K., 1419, 2441
 Bogges, M. E., 3688(a)
 Boggs, S. W., 1933
 Bokil, K., 3900
 Boland, R. F., 1848
 Bolgar, H., 2317
 Boll, E., 3149
 Boll, E. S., 3299
 Bollis, M. M., 476
 Bonaparte, M., 441, 2188, 3657
 Bond, D. D., 1317, 2965
 Bondy, C., 4557(a)
 Bonfante, J. H., 2342
 Bongiovanni, A. M., 2773
 Bonnardel, R., 3216
 Bonner, F. J., 2618
 Bonney, M. E., 1248, 1542
 Bookwalter, K. W., 1256
 Booth, K., 1880
 Boots, M. L., 1996
 Boran, B., 1543
 Borbeck, J. R., 4231
 Borberg, N. C., 3541
 Borden, B., 923(a)
 Bordin, E. S., 274, 882, 1371, 4610(a)
 Borg, L. E., 3492
 Boring, E. G., 969, 970, 1372, 3328, 4220
 Borman, M. C., 1082
 Borow, H., 2452
 Bosch, R., 3901
 Bose, B., 3902
 Bose, G., 3984
 Bose, S. K., 2544, 3932, 3945
 Bosma, J. F., 76
 Bossard, J. H. S., 3299
 Bossard, R., 1452
 Bossmann, B., 118
 Bott, E. A., 2848
 Bottorf, E. A., 1628, 3210
 Boucher, M. M., 3738(a)
 Boutonier, J., 3300
 Bovet, L., 842, 3629
 Bowers, H., 3471
 Bowie, C. G., 4070
 Bowley, A., 1249(a), 3301, 3302, 4641
 Bowman, D. M., 275
 Bowman, H., 2387
 Bowman, K. M., 2966
 Bowman, P. H., 85
 Boyarsky, L. L., 2559
 Boynton, H., 1300
 Bozler, E., 2175, 2857
 Braatov, T., 3041
 Braatsky, T., 3550
 Brace, D. K., 2922
 Braceland, F. J., 2206, 2967, 3814
 Brachfeld, F. O., 2343
 Bradford, J. G., 2628
 Bradford, L. P., 3644, 4155
 Bradley, A. J., 2999
 Bradley, C., 2648
 Bradley, M. E., 595
 Bradway, K. P., 806, 1913
 Brainard, M., 490
 Brancale, R., 2744
 Brandenburg, K. C., 750
 Brandt, H., 4586(a)
 Branon, A. B., 2745
 Brantmay, H., 317, 1687
 Brasol, B., 3689
 Braverman, S., 4374(a)
 Bray, C. W., 1731, 4134
 Brazier, M. A. B., 1475(a), 1477(a)
 Brecher, S., 1866
 Bredmore, G. V., 3535
 Bree, M. H., 2217
 Bregande, S. C., 2914
 Breitwieser, J. V., 1045
 Bremer, F., 2862
 Bremer, G., 4570
 Brenman, M., 442, 2189, 3520
 Brentano, F., 967
 Brewer, J. E., 2786
 Brewer, R., 883
 Brickman, W. W., 3258
 Bridge, E. M., 2675
 Bridges, C. D., 1226
 Bridges, J. W., 968
 Brieger, H., 678
 Brill, A. A., 2961
 Brill, N. O., 3521, 3551, 3815
 Brillinger, H. R., 4459
 Brimhall, D. R., 4096
 Brini, A., 3060
 Brink, F. J., 1745
 Brinkmann, D., 4180
 Britt, S. H., 336, 1710, 4646(a)
 Broad, C. D., 2567, 2852
 Brockman, N. W., 2219
 Brodbeck, A. J., 1176
 Brodman, K., 1920, 2231, 2237, 3575
 Brody, B., 783
 Brody, M. W., 1480(a)
 Brogden, H. E., 304, 1308, 2488
 Brogden, W. J., 235, 392
 Bromberg, N., 119
 Bromberg, W., 843, 2746, 4572
 Bromer, J., 1803
 Bromiley, R. E., 3933(a), 3934(a)
 Bronfenbrenner, U., 2280
 Bronk, D. W., 1745
 Brookover, W. B., 2250
 Brooks, C. McC., 3451, 3452
 Brotemarkle, R. A., 2545, 3724
 Brown, C. F., 2017
 Brown, C. M., 1281
 Brown, E. B., Jr., 2181
 Brown, G. L., 3819(a)
 Brown, H., 97
 Brown, J. A. C., 2968
 Brown, J. F., 2057, 2147
 Brown, J. W., 2829
 Brown, M., 924(a)
 Brown, M. T., 1250
 Brown, M. V., 1747
 Brown, R. H., 3409
 Brown University, 4175, 4176, 4256
 Brown, W. L., 1808
 Browne, C. G., 2527, 4558(a)
 Brownell, W. A., 1251, 2453
 Brosek, J., 77, 84, 426, 2149, 3844(a), 3867(a), 3868(a), 4297(a), 4301(a), 4303(a)
 Brubach, H. F., 3793
 Bruce, H. A., 1061
 Bruce, W. E., 1252
 Bruch, H., 3565
 Bruckner, L. J., 3771
 Brühl, O., 3476
 Bruesch, S. R., 421
 Brugger, M., 24
 Brun, G., 3703
 Brun, G. C., 3703
 Brundage, E. G., 3797
 Bruner, J. S., 2107, 3654, 3675, 3684, 4246(a), 4380(a)
 Bruner, R. E., 2649
 Brunswik, E., 337, 2058
 Brussel, J. A., 1907
 Bryan, A. I., 969, 970, 1372, 1985
 Bryson, L., 4510
 Bucher, V., 24
 Buchthal, F., 2858, 3542
 Buck, J. N., 305
 Bucy, P. C., 761
 Budd, G., 3259
 Buell, C., 276
 Buffington, M. A., 2532
 Bugelski, B. R., 4328(a)
 Bühler, C., 4559(a)
 Bühlring, E., 3819(a)
 Bull, N., 715
 Bunch, M. E., 393, 706, 1828
 Burbury, W. M., 633
 Burchard, E. M. L., 2689
 Burgemeister, B. B., 2944, 3474
 Burian, H. M., 2887, 3410
 Burkhart, R. A., 185
 Burlingame, C. C., 2774, 3217, 3706
 Burma, J. H., 2723
 Burnham, P. S., 2094
 Burns, B. D., 3819(a)
 Burns, R. J., 971
 Buros, O. K., 3798
 Burr, E. T., 1890
 Burr, H. S., 2099, 2522
 Burreas, J. R., 1502
 Burridge, W., 2176
 Burrow, T., 338
 Burstein, S. R., 972
 Burstin, J., 63, 4431
 Burstone, M. S., 1083
 Burt, C., 1365, 1629, 1875, 3477, 4156, 4364
 Burton, A., 4432
 Burton, L. F., 461
 Burton, M. L., 2220
 Burt, E. A., 394
 Buswell, G. T., 2546, 3464
 Butler, J. H., 1035
 Butler, V. M., 2031
 Buxbaum, E., 2301
 Buxton, C. E., 4587
 Bychowaki, G., 443, 2959
 Byoune, E. F., 1951
 Cabot, P. S. de Q., 844
 Cahalan, D., 3648, 4519(a)
 Cain, L. P., 2747
 California Council of Personnel Management, 4588
 California University, Division of War Research, 4097
 Callahan, A., 1769
 Cambria, S. T., 1971
 Cameron, D. E., 1849, 3638
 Cameron, H. C., 2502
 Cameron, N., 100
 Cammisia, J. J. V., 3042
 Campbell, A., 186, 521, 1177, 1942
 Campbell, D. G., 3072
 Campbell, E. M., 2281
 Camper, S., 925(a)
 Canadian Psychological Association, 1362
 Canady, H. G., 2372
 Canivet, N., 3513
 Cantor, N., 1253
 Cantril, H., 3335, 4375
 Caprio, F. S., 444
 Carey, E. J., 2560
 Carhart, R., 372, 2108, 2109
 Carmichael, H. T., 761
 Carmichael, L., 2503
 Carnap, R., 973, 2716
 Carnes, E. H., 3840
 Carp, A., 4501(a)
 Carrell, J., 2110
 Carrier, N. H., 3344
 Carrillo-Broatch, A., 3547
 Carrington, E. M., 120
 Carrothers, G. E., 2945
 Carter, G., 3707
 Carter, G. S., 78
 Carter, G. W., 3196(a)
 Carter, H. D., 3285
 Carter, J. D., 2676
 Carter, L. F., 3218, 3708
 Carter, W. R., 3260
 Cartwright, D., 187, 3360, 3684
 Cascajo, J., 3473
 Cason, F. L., 3709
 Caspe, S., 974
 Case, W. A., Jr., 4501(a)
 Cassirer, E., 1709
 Castedo, C., 4490
 Castelnuovo-Tedesco, P., 300
 Castendyck, E., 957, 1704
 Castiglioni, A., 106
 Castillo, C. R., 1976
 Castle, W. E., 3336
 Cathcart, J. P. S., 1881
 Castore, G. F., 2783, 3237
 Cattell, J. McK., 2547
 Cattell, R. B., 501, 1519, 1520, 1521, 4376, 4520(a)
 Cawadiaz, O. B. E., 121
 César, E. P., 822
 Chadderdon, H., 1281
 Chadwick, L. E., 1772
 Chaikellis, A. S., 1347
 Chalfen, L., 3219
 Chalke, F. C. R., 4458
 Challman, A., 2218
 Challman, R. C., 2282
 Chambers, M. M., 1254, 4157
 Chamoulaud, M., 1155
 Chance, B., 3411(a)
 Chance, M. R. A., 4044
 Channell, R. C., 1830
 Chapanis, A., 34, 2888, 4257, 4258, 4259, 4260, 4278, 4616(a), 4617, 4618, 4619
 Chapin, F. S., 975, 3160
 Chapman, D., 1643
 Chapman, W. P., 3552
 Chappell, E. S., 2650
 Chapple, E. D., 849, 1477(a), 4511
 Chard, R. D., 4660(a)
 Charlin, A., 122
 Chase, W. F., 1738, 2283
 Chastain, M., 2038, 4329
 Chauchard, P., 1746
 Chauncey, J. B., 926(a)
 Chávez, L., 4571
 Chayer, M. E., 939
 Cheavens, F., 634
 Cheln, I., 4532(a)
 Chen, H. P., 936, 1178
 Cheney, C. O., 123
 Cherbeneau, A. F., 4406
 Child, A., 976
 Child, C. M., 1819
 Child, I. L., 1036, 3453, 3961
 Child Study Association of America, 2809
 Child Study Association of America, Bibliography Committee, 3670
 Chipman, C. E., 3000
 Chisholm, G. B., 3639
 Chisholm, M., 1630
 Christensen, J. M., 4620(a)
 Christensen, T. E., 884, 885
 Christensen, W. R., 4232
 Christiansen, C., 1888, 3483
 Christiansen, K. O., 3690
 Christoffel, H., 3903
 Chrysanthos, K., 79, 3129
 Chu, W.-C., 2588
 Chung, K.-L., 1351
 Church, A. S., 4003
 Churchman, C. W., 648, 1522, 4135

- Cipriani, A., 2952
 Cisher, L. E., 3956(a)
 Citron, A. F., 4531(a), 4560(a)
 Clark, B., 2881
 Clark, D. A., 2218, 3710
 Clark, G., 519
 Clark, K. B., 1797
 Clark, K. E., 2069
 Clark, M. L., 2427
 Clark, P. E., 4642
 Clark, R. A., 1084, 2849
 Clark, R. T., Jr., 2181
 Clark, W. H., 1420
 Clark, W. W., 3778, 3779
 Clarke, D. B., 339, 649
 Clarke, E. K., 1605
 Clarke, F. K., 850(a)
 Clarke, H. J., 3001
 Clarke, J. R., 3709
 Clawson, J., 1
 Cleckley, H., 2605
 Cleeton, G. U., 566, 860, 866, 886, 887, 888, 3220
 Clemmensen, C., 3522
 Clemmensen, S., 3542
 Clemmensen, V., 2568
 Clifton, C. S., 1601
 Coates, C. W., 1747
 Cobb, S., 751, 3552
 Cockerill, E. K., 2251
 Code, C. F., 2946
 Coermann, R., 696
 Coetsier, L., 1255, 1309
 Cofer, C. N., 4034
 Coffin, T. E., 1977
 Cohen, A., 2284
 Cohen, B., 462
 Cohen, B. A., 927(a)
 Cohen, J., 3671
 Cohen, J. B., 1014(a), 1398(a)
 Cohen, L., 227, 1631
 Cohen, L. H., 1977
 Cohen, M. E., 3552
 Cohen, N., 1205
 Cohen, R. A., 2252, 3617
 Cohen, R. R., 1606
 Cohn, D. L., 522
 Cohn, R., 679
 Cole, L., 635, 2504, 2505
 Coleman, H. S., 1015
 Collins, W. S., 1718, 1770
 Collins, A. W., 3412
 Collins, O., 832
 Collins, R. T., 3523
 Columbia University, Bureau of Applied Social Research, 1194
 Combs, A. W., 752, 1156, 2018, 2318
 Conel, J. L., 4241
 Conrad, H. S., 818, 1179, 3286, 3288
 Conrad, M., 2533
 Cook, E. B., 3872
 Cook, L. A., 1266
 Cook, S. W., 4530(a)
 Cook, T. W., 228, 707(a)
 Cook, W. W., 3261, 3287
 Cooke, E. D., 1085
 Coombs, C. H., 4209(a)
 Coomer, A., 960
 Conn, C. S., 1180, 4511
 Conn, G. P., 307, 471, 1467(a)
 Cooper, C. C., 4561(a)
 Cooper, E., 3193
 Cooper, E. F., 1481
 Cooper, K. W., 1440
 Cooper, M. J., 4004
 Copell, D. F., 1603
 Coppock, H., 4358(a)
 Cordish, H., 2677
 Cornell, F. G., 3345
 Corner, M., 2686
 Cornsweet, A. C., 124
 Cornyetz, P., 3595
 Corrigan, H. G., 806, 1913
 Corsini, R. J., 219, 2412, 4572
 Cortell, R., 2866
 Costa, F., 125
 Costantino, G., 319
 Cotte, S., 1918, 3197
 Cotton, J. M., 3596
 Couey, F., 4648(a)
 Coughlin, B. R., 3739(a)
 Coujard, R., 3384
 Count, E. W., 2863
 Cousinet, R., 3303
 Cousins, N., 4562
 Covalt, D. A., 1086
 Covner, B. J., 3725, 4589(a)
 Cox, R. T., 1747
 Cramer, H., 2
 Crane, H. W., 1850
 Cranford, V., 2765
 Crannell, C. W., 2554
 Creed, C. E., 3221
 Creggan, R. F., 2039, 2060, 2070, 2091, 2177
 Crespi, L. P., 1157, 1181
 Crichton-Miller, H., 2052
 Crider, B., 1087
 Criswell, J. H., 977, 1182, 4605(a)
 Crocker, E. C., 2111
 Crombie, A. C., 3405
 Cronbach, L. J., 1675, 2489, 2830, 4168, 4222(a)
 Crook, M. N., 4621(a)
 Cross, O. H., 2690
 Crow, A., 3772
 Crow, L. D., 3772
 Crush, M., 382
 Cruvant, B. A., 3084
 Cummings, J. D., 1688
 Cummins, G. M., 4234
 Cummins, H., 1439
 Cunningham, J. M., 2218, 2651
 Cupps, R. D., 4643
 Cureton, E. E., 4365(a)
 Cureton, T. K., 1256
 Curran, C. A., 3574
 Curran, D., 1851
 Curran, F. J., 2652
 Curry, E. T., 2506
 Curschmann, H., 753
 Curtis, A., 2406
 Curtis, A. B., 1399
 Curtis, W. E., 3
 Curtz, E. F., 2019
 Cushing, J. R., 4335
 Cushman, J. F., 164
 Cuthbertson, D. P., 3454
 Dabelstein, D. H., 1258, 4225(a)
 Da Costa, R. C., 2034
 Dahlberg, G., 1820
 Dahlgren, O. H., 1257
 Dai, B., 1158
 Dailey, J. T., 4210(a)
 Dale, L. A., 1062, 1069
 Dalla Volta, A., 35, 2319
 Dallenbach, K. M., 1363, 3401
 Dalton, M., 852
 Dambuyant, M., 1925, 4360
 Damon, A., 4136(a)
 Dandy, W. E., 360
 Daniel, R. S., 422, 4403(a)
 Daniel, W. J., 4330(a)
 Dantin Gallego, J., 3385
 Danziger, L., 1088
 D'Arcy, M. C., 4198
 Darley, J. G., 4045
 Darrab, J. H., 3405
 Darrow, C. W., 20, 361, 365, 3829(a), 3835(a)
 Dartnell Corporation, 3222
 Das Gupta, J. C., 3963
 Datta, A., 3863
 Davenport, K. S., 2029
 Davenport, R. C., 3043
 Davenport, R. K., 567
 Davidoff, E., 1908, 2207, 2653, 2969
 Davidoff, L. M., 1748
 Davidson, G. A., 3020
 Davidson, G. M., 1978
 Davis, A., 1986, 1987, 1988, 2724, 2810
 Davis, C. J., 1400
 Davis, D. R., 4622
 Davis, F. B., 978, 1632, 1676, 2775, 3711
 Davis, H., 1771, 2112, 3832
 Davis, H. E., 2738
 Davis, H. M., 1710
 Davis, J. C., 628
 Davis, J. E., 463, 3085
 Davis, J. F., 4511(a)
 Davis, J. P., 3027
 Davis, K., 229, 2208
 Davis, R. C., 4298(a)
 Davis, W. A., 2810
 Davison, C., 1435
 Dawes, L. N. G., 201
 Dawson, W. M., 1821
 Day, G., 2238
 Deabler, H. L., 1371
 Deb, A. K., 558
 De Bruyn, P. F. H., 2589
 Dedichen, H. H. T., 2253
 Deeg, M. E., 1183
 Dees, S., 1089
 Deese, J., 423, 431, 1049, 2582, 2928
 DeForest, J. B., 126
 De Grazia, S., 3672
 DeGruchy, C., 368, 4428
 de Havas, F., 2820
 Delay, J., 2923
 Delgado, H., 3546, 3547
 Della Casa, F., 2113
 DeMarche, D. F., 1633(a)
 deMaré, G., 3885
 De Martino, M. F., 3138, 3377
 Dembo, T., 3099
 de Montpeller, G., 4313
 Dempf, A., 2838
 Demuth, E. L., 1435
 Dengrove, E., 2239
 Dennes, W. R., 651
 Denny, M. R., 708
 Denny-Brown, D., 3980
 De N6, L. R., 1386
 De Prospe, C. J., 464
 Deri, S. K., 4446(a)
 Derrick, E. W., 4054
 de Rudder, B., 666
 Desai, M., 3048
 de Saussure, R., 150
 Des Lauriers, A., 2226
 Despert, J. L., 928, 1090, 4447
 Dethier, V. G., 1772
 de Urrutia y Llano, J. M., 3731, 3764
 Deutsch, A., 1634
 Deutsch, F., 1318, 2285, 2678, 2844
 Deutschberger, P., 2388, 3640
 Deutscher, M., 3304
 Dewees, S., 1888, 3483
 Dewey, C. S., 2425
 Dey, H., 3086
 Deyoe, G. P., 1267
 Diamant, H., 3886
 Dias, M. V., 2561
 Diaz-Guerrero, R., 1867
 Dichter, E., 2819
 Dickenson, H. F., 340
 Dickmeiss, P., 4573
 Diederich, P. B., 1635, 2454
 Diethelm, O., 1388, 2606
 Dietrich, J. E., 2344
 Diggs, M. H., 3691(a)
 DiMichael, S. G., 1258, 4225(a)
 Dimmick, F. L., 2114
 Dingwall, E. J., 1953
 Dirks, H. M., 3709
 Dobzhansky, Th., 3948
 Dodd, S. C., 2359
 Dodds, E. R., 2190
 Dodes, I. A., 3502
 Dodson, D. W., 2039
 Doe, J., 4484
 Doerfler, L., 127
 Doesschate, J. T., 1773
 Dognart, J. H., 3044
 Dolger, L., 1689
 Doll, E. A., 1373, 2679, 3536, 3773, 3776
 Doll, R. C., 3740
 Dollard, J., 2360
 Donahue, W. T., 277, 4125
 Dorcus, R. M., 2209, 4299
 Dorr, M., 1694
 Doucier, C., 2850
 Douglas, M. E., 3002
 Douglas, H. R., 1259
 Doves, V. J., 1767
 Dow, R. S., 3830
 Dowling, F. R., 1544(a)
 Drake, R. M., 2455
 Draper, F. A., 2254
 Dreikurs, R., 1545, 2092
 Dreisner, C., 823
 Dresnel, P. L., 4644(a)
 Dresner, D., 1596
 Drew, L. J., 2020
 Drill, E., 1636(a)
 Driscoll, G. F., 1184
 Driver, R. L., 2588, 2590
 Drummond, M. D., 624
 Dubin, E. R., 1637
 Dubin, S. S., 4448(a)
 DuBois, F. S., 128
 Dublneau, J., 4477
 Dubrovsky, R., 4445
 Dudek, F. J., 3218, 4211(a)
 Dudycha, G. J., 2095
 Duff, I. F., 2970
 Duffy, E., 341, 716, 1436
 Duke-Elder, S., 2839(a)
 Du Mas, F. M., 2320
 Dunagan, M., 1546(a)
 Duncan, A. J., 2798
 Dunham, H. W., 129
 Dunlap, J. W., 1822, 1989, 4137
 Dunlap, K., 188, 373, 2389
 Dunlop, F. S., 4645
 Dunn, A. L., 2874
 Dunn, H. M., 3580
 Dunn, W. H., 465
 Duntley, S. Q., 1016(a)
 Duntton, W. R., Jr., 1091
 Durand, J. D., 569
 Durand, M., 3211
 Durup, G., 2889
 Dushkin, A. M., 2548, 2725
 Düss, L., 728, 3032
 Dutton, W. H., 1690(a)
 Duval, A. M., 4460
 Duval, E. M., 523
 Dvorine, I., 36
 Dyke, C. G., 1748
 Dynes, J. B., 466, 2864
 Eagleson, H. V., 3437
 Eagleson, O. W., 189, 3437
 Eames, T. H., 3262, 3845
 East, W. N., 1220, 3198, 4073
 Easterman, B., 4407
 Eastmann, A. A., 2899
 Eastwood, F. R., 1607
 Eaton, J. W., 3150, 3223
 Eaton, M., 570
 Eaton, M. T., Jr., 461
 Eaton, W. H., 2698
 Ebaugh, F. G., 754, 880, 3524, 4461
 Eberl, M. T., 1401
 Eckert, W. F., 1525(a)
 Eccles, A. K., 1597
 Eccles, J. C., 1749
 Ecrody, D. H., 1547(a)
 Edds, M. V., Jr., 2185
 Edgerton, A. H., 1934
 Edgerton, H. A., 1710, 1990, 4646(a)
 Edkins, K., 1598
 Edlin, G., 4182
 Edmiston, R. W., 890
 Edmonds, E. P., 2680
 Eduardo, O. da C., 1548(a)
 Edwards, A. L., 2345, 2402, 4521(a)
 Edwards, A. S., 424, 1046, 3455
 Edwards, C. F., 1523
 Eells, E. P., 3087
 Egan, J. P., 4345(a)
 Equiluz López, B., 4647
 Ehrenfreund, D., 4331(a)
 Ehrlich, W., 979
 Eisenbud, J., 2191
 Eisenson, J., 4000
 Eisner, P. E., 4377(a)
 Eissler, R. S., 1092
 Eittington, J. E., 3712
 Eklund, J. M., 1638
 Ekstein, R., 105, 4199(a), 4374(a)
 El-Alem, M. A., 1809
 Eldersveld, W., 4125
 Elissberg, W., 130, 2286, 2748, 3130
 Elizarraraz, F. G., 4498
 Elken, R., 2255
 Elkin, F., 2361
 Elkow, J. D., 3247(a)
 Ellerbrock, V. J., 80, 1017, 1412
 Elery, R. S., 1607

- Elliott, L. W., 2971(a)
 Ellis, A., 502, 1926, 3133, 3139, 3141, 3263
 Ellis, R. S., 1260, 1810
 Ellison, D. G., 4623(a)
 Elmgren, J., 1261
 Embree, R. B., Jr., 1677
 Emens, J. R., 1639
 Emery, D. A., 3421
 Endacott, J. L., 503
 Engel, A. M., 3741
 Engel, G. L., 3831
 Engelson, M., 4183
 England, A. C., Jr., 3021
 England, A. O., 717, 1319, 1739
 Engle, T. L., 1524
 Engert, N. A., 2771
 English, E., 3248
 English, O. S., 755, 756
 Erickson, R. W., 1262
 Ericson, E. E., 1289
 Ericson, M., 4499(a)
 Erisman, Th., 2838
 Eschmarch, O., 3597
 Espenshade, A., 4526
 Esquirol, J. E. D., 4005
 Eussen-Möller, E., 1460
 Essig, M., 190
 Esteban, M., 2890
 Etchevoyen, J. C., 4490
 Etsten, B., 3395
 Ettinger, K. E., 1185
 Evans, C., 4462
 Evans, C. E., 853
 Evans, M. C., 4532(a)
 Evans, M. F., 3543
 Ewalt, J. R., 3482, 3566
 Ewart, E., 1999, 2000
 Ewer, R. F., 1823
 Ewing, A. W. G., 2912
 Eysenck, H. J., 3742
 Fabian, A. A., 2507
 Fabing, H. D., 1461, 1462, 3045
 Faegre, M. L., 2508
 Faergeman, P., 4449
 Fairbairn, W. R. D., 729
 Fairley, T., 3806
 Fajen, E., 4074
 Fales, W., 2583
 Falk, M., 3784
 Falla, W. A. S., 2972
 Fantel, E., 4006
 Farber, A., 25
 Farber, I. E., 4300(a)
 Farber, L. H., 2635
 Farber, M. L., 2413(a)
 Farris, R. E. L., 3189
 Farmer, E., 467
 Farnsworth, P. R., 2346
 Farrell, G., 2115
 Farrell, M. J., 3551
 Farris, E. J., 1476
 Faulkner, R. N., 4098
 Faubry, A., 1868
 Favre, A., 4512
 Fawcett, H. P., 1270
 Fayer, M., 4221, 4624
 Feder, D. D., 596, 4158
 Federn, P., 571, 4007
 Fehleman, C., 939
 Feibleman, J., 2373, 2523
 Feinberg, M., 2928
 Feinman, L., 757(a)
 Feldman, F., 3003
 Feldman, R. S., 770, 3912
 Felix, R. H., 1510, 3199
 Felsing, J. M., 3465
 Fender, F. A., 680
 Feng, T. P., 1386
 Fenichel, O., 342, 1954
 Fenn, W. O., 2172
 Fenninger, W. N., 1302
 Fensch, E. A., 278
 Fensterheim, H., 4563(a)
 Fenton, N., 1263
 Fentress, T. L., 3111
 Fergen, G. K., 1691(a)
 Ferguson, L. W., 191, 4099
 Fernandes, B., 220
 Fernberger, S. W., 2089, 3374
 Ferris, E. B., 2172, 3831
 Fertsch, P., 279
 Fessard, A., 1750
 Festinger, L., 4, 1824, 2534
 Fieandt, K. V., 824
 Field, H., 1194
 Field, M., 758
 Figueroa, C. A., 3731
 File, Q. W., 572
 Finch, F. H., 597
 Findley, W. G., 1264, 3288, 4513(a), 4648(a)
 Finesinger, J. E., 1477(a), 2856
 Finger, F. W., 2347, 3386, 3413
 Finkelstein, L., 4510
 Finley, C. B., 524
 Finley, V., 1190
 Fiolle, J., 2636
 First, M. W., 2138
 Fischer, A. L., 3972
 Fischer, C. C., 3828
 Fischer, L. K., 2317
 Fischer, R., 1437
 Fischer, R. P., 3807
 Fisher, C., 3985
 Fisher, G. E., 1774
 Fisher, H. M., 3305
 Fisher, K. C., 228, 3918(a)
 Fisher, M. B., 81, 225, 3899
 Fischelli, V. R., 1402, 2569, 3414, 3946
 Flak University, Social Science Institute, 1955
 Fiske, D. W., 854, 1732, 2555
 Fiske, M., 2406
 Fitts, P. M., 1608, 2535, 4138, 4625(a)
 FitzGerald, W. J., 4590
 Flamand, A. L., 1909
 Flanagan, J. C., 1609, 2426, 4100
 Fleischman, B. L., 1599(a)
 Fleming, J., 3088
 Fleming, L., 2256
 Flesher, M. A., 2477
 Fletcher, J. P., 2131(a)
 Fliess, R., 107
 Flinn, F. B., 1347
 Floch, M., 2749, 3553
 Florence Louise, Sister M., 2930
 Flournoy, H., 1453
 Flowerman, S. H., 4527(a)
 Floyer, M., 1882
 Flugel, J. C., 5, 1844
 Foa, P., Jr., 652
 Fodor, N., 1845, 2232, 3781, 3955
 Foley, J. D., 2444
 Follis, R. H., 3387
 Foltin, E. M., 468
 Fontaine, M., 2591
 Fontes, V., 1733, 2040
 Forbes, A., 3832
 Forbes, F. A., 2122
 Forbes, G., 1227
 Forbes, M. L. H., 6
 Forbes, T. W., 37
 Ford, A., 1991
 Ford, M., 807
 Fordham, M., 2654
 Foreman, P. B., 3658
 Forgione, J. D., 636
 Forkner, H. L., 4169
 Form, W. H., 1549
 Fornwalt, R. J., 1265, 1979, 2287
 Forster, M. H., 2693
 Forsyth, E., 1244, 1266, 2362
 Foss, C. E., 3415(a)
 Foster, D., 3400
 Foucault, M., 2947
 Foulkes, S. H., 730
 Fouquet, P. D., 1852, 2950
 Fowler, E. P., 2913
 Fox, J. T., 2655
 Fox, V., 221, 557, 4101
 Foxboro Company, 1228, 1329, 1230, 1231
 Foxe, A. N., 2750, 2960
 Fracard, L. M., 2865(a)
 Fraiberg, S. H., 3641
 Fraisse, P., 1711, 2948
 Francis, E. K., 2390
 Franck, K., 818
 Frandsen, A., 2148
 Frank, A., 2257
 Frank, J., 131
 Frank, J. D., 132, 759
 Frank, L. K., 2218
 Frankel, E., 2288
 Frankel, E. B., 1320
 Frankl, V. E., 2321(a)
 Franklin, J. C., 2149, 4297(a), 4301(a), 4303(a)
 Frantz, R., 2221
 Franz, J. G., 1093
 Franzen, R., 2035, 4096, 4151
 Fraps, R. M., 4302
 Fraser, F., 2608
 Fraser, J. M., 573
 Frauchiger, E., 3525
 Fredericksen, H. H., 320
 Frederiksen, N., 230
 Free, L. A., 343
 Freed, H., 1525(a)
 Freedman, A., 2949
 Freedman, H. L., 504, 2322
 Freeman, A. G., 855
 Freeman, F. N., 598, 2845
 Freeman, H., 2258
 Freeman, W., 2656, 3394
 Freeling, K. H., 4574
 Freese, N. R., 3438
 Freud-Brunswick, E., 637, 1927
 Freud, A., 731, 1454, 1646
 Freud, S., 732, 2549
 Freudenberg, R. K., 3089
 Fried, E., 176
 Friedmann, T. E., 3456
 Friedlander, H. F., 1811
 Friedman, B., 760(a)
 Friedman, B. B., 1550
 Friedman, E. D., 146
 Friedman, J. H., 3090
 Friedman, S. W., 2223
 Friend, M. R., 3598
 Fries, H. S., 4184
 Fries, M. E., 3306
 Frignito, N. G., 1891
 Frings, H., 690, 2880
 Frisby, C. B., 1992
 Froeschels, E., 425, 1775
 Fromm-Reichmann, F., 2973
 Frumkes, G., 469
 Frutchey, F. P., 1267
 Fry, G. A., 1018(a), 2116, 2117, 2891, 3416, 3434, 4261
 Fuerstenthal, A. H., 344
 Fuhrer, S. J., 929(a)
 Fuhrman, M., 2456
 Fuller, E. M., 1640, 1642, 3963
 Furneaux, W. D., 1455
 Furrer, W., 53
 Futterman, S., 2681
 Gage, N. L., 3667
 Galdston, L., 1853
 Gallagher, B. G., 4528
 Gallagher, C. D., 3417
 Gallagher, J. R., 3417, 3870
 Gallaway, D., 374
 Gallego, A., 3833
 Galline, A., 3973
 Galochkina, L. P., 2896
 Galt, W. E., 3458
 Galvarro, P. A., 1641(a)
 Gamble, C. J., 192, 3004
 Gantt, W. H., 709, 3940(a)
 Garard, H. T., 2118, 2119
 Garber, C. M., 1956
 Gardien, P., 122
 Gardner, B. B., 1610, 1987, 1988, 1993
 Gardner, G. E., 559
 Gardner, L. P., 3491
 Gardner, M. B., 3439
 Gardner, R., 899
 Garfield, S. L., 3119
 Garmany, G., 1094
 Garner, W. E., 4285(a)
 Garofalo, F., 2560
 Garrett, H. E., 980, 1421
 Garrido, L., 4575
 Garrison, K. C., 7, 638
 Garrison, M., Jr., 2227
 Gates, A. L., 1019, 2457, 3743
 Gates, M. F., 321
 Gaudet, F. J., 2218
 Gay, W. O., 1422
 Gaylord, R. H., 310
 Gebhard, M. E., 1561
 Geddes, W. R., 38
 Geert-Jørgensen, E., 4485
 Gelges, E. A., 1566
 Geldard, F. A., 1825
 Geldreich, E. W., 2021
 Gellhorn, E., 76, 1812, 2592, 2866, 2867, 2868
 Gemelli, A., 653, 1551
 Gentry, G., 1423
 Geoghegan, J. J., 1892, 3599
 Gerard, M. W., 1321
 Gerard, R. W., 681, 1751, 2559, 3329
 Gerberich, J. R., 3263
 Gerbrands, R., 2071
 Gerhart, L. W., 3090
 Gersh, I., 1438, 1439
 Gerstein, R., 3659
 Gerstell, R., 231
 Gescher, J., 39
 Gesell, A. L., 1552(a), 1692, 4408, 4444
 Gesell, R., 4242
 Getzoff, P. L., 4469
 Ghose, R., 3785
 Ghosh, G., 3904, 4103
 Ghosh, R., 4102, 4159
 Ghosh, S., 4103
 Gibb, W. T., 3567
 Gibbons, C. C., 3807
 Gibbs, F. A., 2098, 2869, 2974
 Gibbs, O. S., 2826
 Gibson, D. L., 4166
 Gideonse, H. D., 2458
 Giese, W. J., 691
 Gilbert, C., 1328
 Gilbert, G. M., 3200
 Gilbert, L., 1693
 Gilbert, R. S., 3568
 Gildemeister, M., 375
 Giles, F. T., 2751
 Gilinsky, A. S., 4378(a)
 Gill, M. M., 442, 445, 814, 2189, 3520
 Gillespie, R. D., 3046
 Gilliland, A. R., 395, 396, 624
 Gilliland, R., 4661(a)
 Gillin, J., 1159
 Gillin, J. L., 1186, 1600
 Gillingham, A., 599
 Gillis, H. W., 1526(a)
 Gillman, S. W., 3224
 Gillman, A., 1752
 Ginandes, J., 1689
 Giordano, L., 2041
 Girard, V., 4370
 Girdner, J., 919
 Gittelson, M., 4429
 Glad, D. D., 525, 4529(a)
 Gladstone, A. L., 3465
 Glaser, G. H., 23
 Glassow, R., 1256
 Glatzel, H., 2637, 3991, 3992
 Glees, P., 362
 Gley, P., 470
 Glucksberg, C. I., 1553
 Glover, E., 2192
 Goddard, H. H., 1424, 2150
 Goetzinger, C. P., 3887
 Goitein, P. L., 2752
 Golden, C. S., 3225
 Golden, H., 1048
 Goldman, H., 40
 Goldman, N., 4036
 Goldman, R., 307, 471, 1467(a)
 Goldrich, R. W., 2459(a)
 Goldsen, J. M., 3677
 Golseth, J. G., 3388
 Goldstein, K., 21, 3786
 Goldstein, L., 2682
 Goldzieher, J. W., 1482
 Goldzieher, M. A., 1482
 Gombert, M. R., 1967, 1968
 Gonick, M. R., 1153
 Good, R., 2622
 Goode, W. J., 4546
 Goodell, H., 3841(a)
 Gooden, G., 4003
 Goodenough, F. L., 825, 1642
 Goodman, C. C., 2107
 Goodman, C. H., 1678, 2799
 Goodman, E., 4160
 Goodman, J., 3539(a)
 Goodman, M. E., 826
 Goodrich, L., 3307
 Gordon, A., 1095, 1862
 Gordon, D. A., 3418

- Gordon, J. B., 1910
Gordon, N., 4544(a)
Gordon, O. B., 193
Gordon, R. A., 930(a)
Gormley, G. J., 2110
Göthlin, G. F., 376
Gotor, P., 3473
Gottlieb, J. S., 1863, 1867
Gottsdanker, R. M., 4181(a)
Gouin, T., 931(a)
Gough, H. G., 1554, 3140
Gouldner, A. W., 2391
Gowan, L. R., 1096
Graber, G. H., 3494, 4200
Grabenner, H., 2120
Grafton, T. H., 2699
Graham, C. H., 232, 3430, 4500
Graham, F. K., 3022
Graham, H., 2313
Granich, L., 3131
Granit, R., 41, 3846
Grannenberg, R., 345
Grant, D. A., 346, 435, 718, 3346, 4332(a)
Grant, H., 168
Grass, A. M., 2098
Grasse, P. P., 2739
Graubard, M., 4547
Graven, W. S., 3493, 3496
Gray, F. E., 1169, 4623(a)
Gray, G. W., 1187
Gray, H., 1097, 4379
Gray, J., 82
Gray, J. A. B., 3834(a)
Gray, J. S., 654
Gray, W. S., 1268, 1643, 3744, 4046
Graybiel, A., 2881
Grayson, H. M., 203, 509, 2243, 2494
Greear, J. N., 377
Green, D. E., 1826
Green, E. L., 2904
Greenacre, P., 2392, 2657
Greenblatt, M., 307, 471, 1467(a)
Greene, H. A., 1268
Greene, J. E., 4513(a), 4648(a)
Greene, J. S., 4475
Greene, K., 3732
Greene, T. M., 4089
Greenhill, M. H., 1098, 2638, 3034, 3554, 3600
Greenleaf, W. J., 3226
Greenson, R. K., 3151
Greenwell, E. G., 600
Gregersen, M. B., 3548
Gregor, A., 222
Gregory, F., 3249
Gregory, W. E., 2289
Gregory, W. K., 2934
Gregory, W. S., 891, 3774
Greiffau, W., 194
Grenell, R. G., 2099
Grether, W. F., 4274, 4626(a), 4636(a)
Grey, L., 1285
Griaule, M., 3165
Grice, G. R., 4333(a)
Griffin, D. R., 2910
Griffiths, M. H., 3308
Griffiths, W. J., Jr., 4233
Grinker, R. E., 795, 1188, 3120, 3555, 3601
Groedel, F. M., 83
Groen, J. J., 3569, 4286
Grossbeck, D. M., 528
Grosch, D. S., 3905
Groom, M. M., 932
Groomlight, J. H., 3452
Groomman, M. I., 4234
Grotjahn, M., 3091
Groves, C. H., 2427
Grove, J., 2892
Grove, W. E., 3250
Grover, K. B., 1644
Grubba, F. E., 4215
Grubbs, S. M., 2309
Grubie, H. W., 2753
Grundfest, H., 2870
Grundy, F., 2400
Guerra, L. A., 3546, 3892(a), 3693
Guetzkow, H. S., 77, 84, 85, 426, 4297(a), 4301(a), 4303(a)
Guha, U., 3964
Guller, W. S., 280, 601, 862
Guilford, J. P., 625, 635, 2490, 4212(a)
Guillaume, P., 656
Guillemot, E., 3424
Gumprecht, H., 3309
Gundelach, M. L., 2686
Gundlach, R. H., 602
Gurvitz, M. S., 1680, 2491, 2754, 3047
Gurwitsch, A., 2151
Gustav, A., 808
Guthrie, E. A., 2082, 3986
Guthrie, E. R., 2152
Gutiérrez-Noriega, C., 3526
Guttmann, E., 1851
Guttman, L., 8, 2717, 3649, 4052
Haas, M., 4530(a)
Haas, R. B., 1269, 3604
Habbe, S., 2776
Hachet-Souplet, P., 2924
Hackbusch, F., 472
Hacker, F. J., 2189
Hadden, S. B., 2259, 3092
Hagan, M., 2290
Hagenhoff, M. P., 2022
Haggard, E. A., 2071, 4304(a)
Hahn, M. E., 3602, 4226(a), 4650(a)
Haines, E. M., 3277
Haire, M., 3733, 4334
Hakeem, M., 223
Halbach, M., 446
Haldane, J. B. S., 2178
Halder, R. M., 4161
Hall, C. S., 2323, 3023, 4305(a)
Hall, E. T., Jr., 2374
Hall, L. E., 3709
Hall, M. E., 347
Hall, N. B., Jr., 3401
Hall, T. A., 3466(a)
Hall, W. E., 4335
Hallaran, W. S., 3093
Hallett, H. F., 2853
Halliday, J. L., 2240
Halperin, M. H., 1786, 2126, 3847(a)
Halperin, S. L., 3005
Halpern, F., 164, 809, 2226
Halstead, H., 281
Halstead, W. C., 761, 4262(a)
Halsted, J. A., 2639
Halverson, H. M., 86
Haman, J. O., 692
Hamburger, F. A., 42
Hamburger, W. W., 3570
Hamilton, D. M., 3094
Hamilton, S. W., 2843
Hamman, L., 3993
Hammond, W. H., 981(a)
Hamor, W. A., 1611
Hampton, P. J., 2975, 2976, 2977, 2978
Hampton, R., 3709
Hanchett, G., 195
Handley, K. N., 1555
Handmann, E., 3099, 4380(a)
Hankes, E. J., 2537
Hankins, F. H., 4170
Hannaford, E. S., 1994
Hansen, B., 3676
Hanson, H. B., 957, 1704
Harrison, F. H., 1987, 1988, 1995
Hardcastle, D. N., 1322
Hardcastle, E. M. K., 1322
Harding, J., 4531(a), 4560(a)
Harding, S. W., 1015
Hardy, A. W., 2722
Hardy, J. D., 3841(a)
Hardy, L. H., 1020, 1403, 1404, 4263
Harlow, H. F., 397
Harms, E., 348, 810, 3310, 3808
Harper, R. A., 2700
Harrell, T. W., 893, 4104
Harriman, F. L., 2083
Harrington, D. O., 1753
Harris, A., 1556
Harris, A. J., 2789, 4126, 4662(a)
Harris, C. W., 4222(a)
Harris, D. B., 3497, 4366(a)
Harris, D. H., 1511
Harris, E. S., 2497
Harris, H. I., 3603
Harris, J. D., 1526(a), 1777
Harris, M. D., 1524
Harris, R. E., 1892
Harris, W. E., 1492
Harrison, C. E., 699
Harrison, J. M., 22
Harrison, W. R., 1557(a)
Harrison, T., 3642
Harrow, G. S., 3604
Harrower-Erickson, M. R., 3478
Hart de Ruyter, Th., 3499
Hart, H., 2718
Hart, H. H., 108
Hartley, R. E., 1558
Hartmann, G. W., 526, 1645, 4409(a)
Hartmann, H., 2193
Hartridge, H., 1778, 1779, 1780, 3848(a), 3849(a), 3850(a), 3851(a), 3852(a)
Hartung, M. L., 1270
Harvard University. Graduate School of Business Administration, 3855, 3856, 3857, 3858, 3859, 4264, 4265, 4266, 4267, 4268
Harvard University. Howe Laboratory of Ophthalmology, 3860, 3936
Harvard University. Psycholinguistic Laboratory, 3858
Harvard University. Psycho-Educational Clinic, 3853, 3854
Harvey, E. N., 1440
Harvey, K., 3298
Harvey, V. K., 1612
Harwood, D. M., 4269
Haskel, H. S., 97
Haskell, E. F., 4047
Hass, G. M., 856
Hathaway, S. R., 511
Hattwick, L. W., 2311
Hause, E. T., 4242
Hauseholder, E., 2560
Hausman, H. J., 4591(a)
Havighurst, R. J., 322, 1694, 2724, 2810
Hawkins, J. E., 2915
Hawley, P. K., 3375
Hay, E. N., 4105
Hayes, M. F., 124
Hayes, S. P., 603
Hayes, S. P., Jr., 9
Hayner, N. S., 4643
Haynes, G. E., 2726
Hazell, K., 1099
Heath, R. G., 1503
Heath, S. K., 1646
Hebb, D. O., 196, 427, 2233, 4336(a)
Hecht, S., 1027, 1405, 3419
Hediger, H., 1441, 2840
Heersma, P. H., 4486
Heese, J. de V., 1647, 3745
Hefferman, H. N., 2215
Hefferman, R., 933(a)
Heidbreder, E., 1425, 1426, 4359
Heider, F., 1021
Heil, L. M., 1271
Heilbrunn, L. V., 2593
Heim, A. W., 2036
Heinlein, C. P., 1928
Heinrich, A., 2562
Heisler, F., 3746
Helfand, M., 1116
Heller, E., 2293
Heller, S. H., 1888
Hellpach, W., 657, 2550, 3810
Helmick, J. S., 3906
Helson, H., 64, 1366, 2570, 2892
Helson, H. B., 64
Hemingway, A., 1450
Hemphill, J. K., 4323(a)
Henderson, A. T., 133
Henderson, C. R., 4295
Henderson, D. K., 1100
Henderson, J. W., 2882
Henderson, R. D., 3713
Hendley, C. D., 1022(a), 1027
Hendricks, B. C., 3747
Hendry, J. W., 2428
Henneman, R. H., 4627(a)
Henri, F., 3300
Henry, C. E., 3829(a), 3835(a), 3981
Henry, F. M., 2121
Henry, J., 827
Henry, N. B., 1272
Henry, W. E., 1957
Herfindahl, O. C., 10
Heritaka, A., 3820
Herman, M., 126, 3527
Hermann, K., 2563, 4649
Hernández Oñeros, A., 3694
Heron, W. T., 2348, 3372
Herrick, C. J., 2524
Herrin, R. C., 2179
Herriott, F., 4008
Herrmann, D., 894(a)
Herold, K. F., 3748
Hersch, B. C., 2893
Herskovits, M. J., 4055
Hertz, M. R., 3141
Hertz, E., 23
Hertzler, J. O., 1969
Hertzman, J., 762
Hess, W. K., 24
Heubner, W., 763
Heuser, K. D., 169
Heuss, C. A., 1273
Hewitt, E. S., 312
Hewitt, J. E., 3500
Hewlett, I., 3565
Hewlett, J. D., 764(a)
Hewspcar, D., 4462
Heye, H., 2153(a)
Heyie, B. C., 197
Heymann, K., 323, 2627
Hibbeler, H. L., 1883
Hickox, E., 1190
Hicks, T. K., 3907
Hiestand, W. A., 2598
Higgins, E. L., 4261
Higgins, F. C., 3889
Higgins, G. C., 3420
Hildreth, G., 939
Hildreth, G. H., 1310
Hildreth, H. M., 857
Hilgard, E. R., 398, 1189, 3376, 3963
Hilger, D. W., 451
Hill, H., 4623(a)
Hill, J., 3728
Hill, J. M., 811
Hill, M., 1508
Hill, M. C., 3658
Hill, R., 3405
Hill, T. S., 3222(a)
Hiltner, S., 2218
Hilton, M. E., 895
Himler, L. E., 574, 3714
Himmelweit, H. T., 1876, 3048
Himwich, H. E., 3395
Himwich, W. A., 3395
Hincks, C. M., 4433
Hinman, F., 2053
Hinsey, J. C., 1743
Hirning, L. C., 2755, 4075
Hirsh, I. J., 3446
Hoag, A., 30
Hoagland, H., 95, 134, 140, 1446(a), 1504(a), 1513(a), 1758, 4434
Hobart, E. R., 934(a)
Hobbs, H. E., 2122
Hobbs, N., 1911
Hobday, K. M., 1729
Höber, R., 1754
Hoch, P., 3037
Hodgkin, A. L., 1755, 1756
Hodgson, P., 2180
Hoefler, P. F. A., 682
Hoel, P. G., 1352, 1721
Hoen, T. I., 23
Hoff, A. G., 3749
Hoff, H. E., 3891(a)
Hoffman, A. C., 2123, 4621(a)
Hoffman, C. E., 2181
Hofman-Bang, A., 4306
Holstetter, H. W., 428
Homadone, K., 2492
Hogrefe, R., 3304, 4532(a)
Hohman, L. B., 3024, 3152, 3618
Holsington, L. B., 11
Holloway, O. E., 1935
Holmes, W. J., 378, 379
Holt, R. B., 812

- Holt, R. E., 534
Holt, R. E., 4381(a)
Holtzman, S. C., 3103
Holway, A. H., 693
Hols, A. M., 72
Holzapfel-Meyer, M., 4307
Holsberg, J. D., 1101, 2291, 2667, 4035
Holzinger, K. J., 282, 1353, 3803
Homans, G. C., 2719
Homburger, E., 3395
Honig, P., 1102, 3581
Honigsmann, J. J., 3166, 3660
Hoople, G. D., 2914
Hooten, E. A., 1047
Hoover, D. W., 3713
Hoover, R. E., 1118
Hopkins, H. W., 2510, 2816
Hopper, R. D., 534
Hoppeck, L., 1232
Horande, M., 470
Horkheimer, M., 1958
Hormann, B., 4348
Horney, K., 733
Hornick, E. J., 1900
Horowitz, M. W., 399, 3937
Horrocks, J. E., 1374, 1539, 3511, 4663
Horvath, S. M., 1048, 2949
Houghten, M. L., 1781
Houk, T. W., 3049
Housden, L., 3311
Householder, A. S., 683
Houston, C. S., 2894
Houtchens, H. W., 4576(a)
Houtz, F., 2414
Hovey, H. B., 3121
Howard, J. C., Jr., 3440
Howard, R. W., 1560
Howell, M. V., 4605(a)
Howells, T. H., 400, 1342
Hoyt, C., 3347
Hsh, E. H., 684, 1472, 1679, 4394(a), 4395
Hsueh, M. T., 1323
Huber, M., 1487, 1488(a)
Hudgins, C. V., 2112, 2915, 3890
Huggett, A. J., 2023
Hughes, C. W., 2701
Hughes, E. C., 1959, 1987, 1988
Hughes, J. W., 1782
Huibert, H. S., 4076
Huibert, E. O., 1026
Hull, C. L., 2925, 3465
Humes, J. F., 4592(a)
Humm, D. G., 308, 4382(a)
Humm, K. A., 4382(a)
Hummon, I. F., Jr., 1324
Humphrey, B. M., 1160, 2336
Humphrey, G., 694(a)
Humphreys, L. G., 626
Hungerford, R. H., 464
Hungerland, H., 2702, 2703
Hunt, H. F., 4036, 4501(a)
Hunt, J. H., 527
Hunt, J. McV., 2194
Hunt, S. P., 135
Hunt, W. A., 1161, 1311, 2926, 3814, 4037
Hunter, H., 1103(a)
Hunter, W. E., 1483
Hunter, W. S., 858
Hunter, W. W., 4655
Hurt, J. H., 4487
Hurvitz, E., 3297
Hurwitz, S., 4577
Husband, J. D., 1648(a)
Hutchings, R. H., 3994
Hutchinson, D., 935
Hutchinson, D. F., 4593
Hutson, P. W., 605
Hutt, M. L., 1740, 2292, 3631
Hutton, E. L., 3095
Huxley, A. F., 1755
Huxtable, Z. L., 3908
Hyndman, O. R., 1006(a)
Ichheiser, G., 1960, 2324
Iglesias de Emanuele, M. C., 3/50
Imus, H. A., 1023(a)
Inbau, F. E., 3201
Ingalls, G. S., 136
Inghe, G., 1221
Ingram, C. P., 3753
Ingram, W. R., 2871
Inkeles, A., 2363
Inman, W. S., 2727
Innsley, M. C., 1051
Irving, J. A., 982, 3194, 4564
Irwin, F. W., 65, 1561
Irwin, J. R., 4383
Irwin, O. C., 936, 1176, 1178, 2511, 3312, 4410(a)
Irwin, R. B., 937
Isham, A. C., 2331
Ivimey, M., 736, 737
Ivy, A. C., 4234
Jackson, M. M., 2777
Jacobi, J., 3361
Jacobs, C. L., 1274
Jacobs, J. H., 1613(a)
Jacobsen, C. F., 2024
Jacobson, A., 1858, 3483
Jacobson, E., 473
Jaek, L., 2543
Jaeger, R., 1783
Jaffe, A. J., 3661
Jager, H. A., 4127
Jagurs, S., 1442
Jahn, T. L., 1024, 1025
Jahoda, M., 3193, 4533(a)
Jalota, S., 4162
Jambor, H. M., 1913
James, H. E. O., 576
James, W. T., 4337
Jampolsky, P., 4270
Janowitz, M., 198, 4525(a)
Jarrett, F. F., 349
Jarvik, M. E., 350
Jasper, H. H., 685
Jeffrey, Mrs. E. S., 3006
Jeffrey, M., 2628
Jellinek, E. M., 2683
Jenkins, J. G., 3816, 4106
Jenkins, R. L., 4478(a)
Jenkins, W. L., 12, 2076
Jenkins, W. O., 66, 1936
Jennings, D., 1882
Jennings, H., 1162, 2364
Jennings, J. R., 3227
Jensen, H. E., 983
Jensen, M. B., 4107, 4463(a)
Jersch, M., 938(a)
Jersild, A. T., 939, 1325
Jewett, I. A., 2031
Jimerson, J. A., 2460
Jind, B. H., 3693
Johnson, A. B., 2927
Johnson, A. P., 2831
Johnson, D. M., 401, 984, 4367(a)
Johnson, E. H., 3949
Johnson, E. P., 4271(a), 4276(a)
Johnson, F. G., 1222
Johnson, F. P., 940(a)
Johnson, H. M., 1233, 1996, 2525
Johnson, J. R., 3390
Johnson, L. K., 1234
Johnson, N. C., 2916
Johnson, P. O., 3347
Johnson, R. E., 3472
Johnson, T. E., 1406(a)
Jolowicz, E., 3927
Jones, E., 738
Jones, E. W., 236
Jones, F. N., 528
Jones, H. E., 429, 1649, 1695, 3459, 3501, 4304(a), 4441, 4412
Jones, H. M., 161
Jones, L. A., 3420
Jones, R. D., 606
Jones, W. P., 3809
Jongkees, L. B. W., 4286
Jonsson, E., 2640
Jørgensen, C., 2403
Jørgensen, J., 4435
Joseph, A., 4545
Joseph, D. B., 3502
Joist, H., 3822(a)
Jung, F. T., 3956(a)
Jurgensen, C. E., 2429, 2832, 3775
Kaback, G. R., 1929
Kadinsky, D., 2691
Kahn, A. R., 941(a)
Kahn, L. A., 1827
Kailla, M., 1104
Kaiser, L., 29
Kaiser Wilhelm Institut für Arbeitsphysiologie, Dortmund, 859
Kalabukhov, N. I., 87
Kalish, D., 2168
Kallmann, F. J., 137, 1470, 1471, 1980, 2979
Kambly, P. E., 1271
Kamm, R. B., 2430
Kaniowski, W., 3426
Kanner, L., 942, 2980
Kanner, M., 3153
Kapat, G. B., 3938
Kapeller, R., 765
Kaplan, H. L., 2932
Kaplan, O. J., 2054
Kaplan, M. D., 4628(a)
Kapp, F. T., 3073
Kappaul, W. E., 233, 234, 235, 2536, 4139, 4272(a)
Kardiner, A., 1877
Karlson, S. C., 2293
Karlson, J. E., 695, 2915
Karn, H. W., 710
Karpman, B., 3050, 3051, 3974, 4009
Kartchner, F. D., 3096
Kasanin, J. S., 813
Katona, A., 1190
Katona, G., 1177
Katz, B., 1757, 3396
Katz, D., 199, 1944, 2084
Katz, E., 1132, 2294, 4488
Katz, L., 2362
Katz, R., 639
Katzenelbogen, S., 4010
Kaufman, H. F., 1970
Kaufman, I. C., 134, 140, 1504(a), 1513(a), 1758
Kaufman, M. R., 2260, 3571
Kaufman, S. H., 3662
Kaufmann, F., 577, 2154
Kay, L. W., 1275, 3161, 3715, 4565
Kaywin, L., 3572
Keckeisen, M. G., 1527(a)
Keeler, C. E., 430
Kehm, H. D., 4064, 4065
Keith, H. M., 2658
Kelher, A. V., 2042
Kellaway, P., 2917, 3891(a)
Kellher, H. M., 4011, 4012
Keller, H., 2601
Keller, J. D., 3650
Kellogg, W. N., 88, 402, 423, 431, 1049, 2582, 2928, 3467, 4243(a)
Kelly, E. L., 1997, 1998, 1999, 2000, 2295, 4163
Kelly, G., 2215
Kelly, G. A., 4140
Kelly, M., 3074
Kemp, F. C., 1500, 1501
Kempie, C., 2641
Kendall, B. S., 3022
Kendall, D. G., 1722
Kendall, W. E., 3602, 4128, 4650(a)
Kende, T. N., 4463(a)
Kendler, H. N., 2210, 4338(a)
Keneally, K. G., 3751
Kennard, M. A., 2100, 2877
Kennedy, J. E., 2783, 3237
Kennedy, J. L., 2859, 4238(a), 4308(a)
Kephart, N. C., 1614
Kerr, M. J., 1105
Kerr, W. A., 1615
Kershman, J., 685
Kerstetter, L., 1276, 4061
Kesteven, G. L., 1723
Ketchum, J. D., 3154
Keys, A., 77, 426, 3844(a), 3867(a), 3868(a), 4297(a), 4301(a), 4303(a)
Kielholz, A., 4464, 4465, 4578
Kiene, H. E., 1130, 2990
Kilby, R. W., 283
Kille, E. C., 3007
Kilpatrick, F. P., 4521(a)
Kimbell, I., Jr., 1887
Kimber, J. A. M., 505
Kimble, G. A., 2155, 4339(a)
Kinard, F. W., 1414
Kinberg, O., 3052
Kinder, E. F., 1375, 2211, 4384(a)
Kindwall, J. A., 1106
Kines, L. B., 607
King, C. D., 1443, 1719
King, J. E., Jr., 2461
Kingsley, H. L., 403
Kinsey, A. C., 3460
Kinsey, V. E., 44
Kinsler, D., 1720
Kinzer, J. R., 4663
Kirk, V., 1702
Kirkpatrick, B. B., 2996
Kirkpatrick, L. H., 896
Kirman, B. H., 1107
Kirschberg, L. S. S., 380
Kiser, C. V., 3167
Kitay, P. M., 4549
Kitson, H. D., 13
Klaber, R., 2241
Klauminzer, F. A., 3007
Klausner, N. W., 1734
Klebanoff, S. G., 2629
Klee, J. B., 4201
Kleemeier, L. B., 2594
Klein, D., 474
Kleinerman, M., 3605
Kleinschmidt, H., 943
Kleitman, N., 2170
Kline, L. H., 2936
Kline, N. S., 4013
Kling, E. B., 3190
Kling, S. G., 3190
Klopfer, B., 472, 2325
Klopfer, W. G., 2692
Kluckhohn, C., 1191, 1192, 3171
Klug, N., 1195
Klugman, S. F., 3142
Knapp, J. L., 1893
Knapp, P., 828(a), 1971, 2124
Knight, F. B., 1714
Knight, R. P., 475, 2756, 3097
Knoll, H. A., 1026, 3422(a)
Knott, J. R., 1863, 1867
Knowles, W., 3287
Knox, J. A. C., 3454
Knox, J. B., 2462
Knudson, A. B. C., 1108
Knupfer, G., 829
Kobler, F. J., 3098
Kobrak, H. G., 1784(a), 3441
Koch, W., 2571
Koeppke, H. F., 1277
Koepp-Baker, H., 3132
Koester, T., 696, 4287
Kogan, K. L., 3025
Kogan, L. S., 2037, 4340(a)
Kohler, M., 4370
Köhler, W., 3421, 3787
Kohn, H. L., 4250, 4251
Kolb, L. C., Jr., 3618
Koller, A., 3556, 4436, 4466
Kollros, J. J., 3397
Komarovskiy, M., 529, 2733
König, H., 40
König, K., 4014
Konopka, G., 3610
Koomen, M. J., 3422(a)
Koon, E. L., 1193
Kopp, H., 4185, 4186, 4187, 4385
Kopp, T., 2463
Korner, A. F., 3726
Korner, I. N., 3096
Kornfeld, W., 1696
Kornhauser, A., 2365, 4522(a), 4629
Kornitzer, H., 3752
Kornmüller, A. E., 363
Kozakiewicz, W., 3348
Koslak, P. T., 3228
Kosky, P., 944(a)
Kostick, E., 2414
Kozol, H. L., 1854
Krabbe, E., 1463
Kraeuer, S., 2375
Krafft, W. A., 3503
Kraft, M. A., 860, 866, 886, 887, 888
Kraines, S. H., 2228
Kramer, M. D., 578
Krapf, E. E., 3515
Kratz, W. C., 897
Kratz, J. D., 2895
Kraus, F. S., 3033

- Kraus, W. H., 830
 Kraut, H. A., 1235
 Kravkov, S. V., 43, 2896
 Kreck, D., 530, 1376, 1945
 Kremer, W. F., 3836(a)
 Kriedt, P. H., 1236, 3239
 Krieg, W. J. S., 364
 Krimberg, M., 2349
 Kris, E., 2193, 3520
 Kristensen, H. K., 3892
 Kritzer, J., 3461
 Kroeger, H. J., 3651
 Kroger, W. S., 742
 Kroll, S., 4013
 Kronenberg, G., 20
 Krout, M. H., 898
 Krueger, W. C. F., 7, 2929
 Kubie, L. S., 1076, 3520, 3606
 Kubis, J., 2941, 3067
 Kubo, J., 4534
 Kuchnia, S., 3607
 Kuenne, M. R., 1037
 Kuffler, S. W., 1757
 Kugelberg, E., 89, 90
 Kugelmass, I. N., 1326
 Kuhl, C., 2001
 Kuhl, L., 2464(a)
 Kuipers, C. C., 3289(a)
 Kundert, E., 3504
 Kunkle, F., 899
 Kunkle, E. C., 2002, 2328
 Kupper, W. H., 1894, 2981
 Kuppasawny, B., 4368
 Kuppaswamy, B., 4164
 Kurland, A. A., 3245
 Kurth, G. M., 2195
 Kurtz, R. H., 2085
 Kushner, R. E., 1019
 Kyle, W. M., 4188
- La Barre, W., 531, 3168
 Lacey, J. L., 4413(a)
 Lacey, O. L., 432, 716, 1879, 4309(a)
 Ladieu, G., 3099
 Lagrone, C. W., 3695
 Lahy, B., 3169
 Laird, A., 1109
 Lalonde, A., 2542
 Lalo, C., 3212
 Lamar, E. S., 1027
 Lamb, M. W., 4414
 Lambercier, M., 3423, 3861, 3865
 Lambert, C. B., 4413
 Lambert, E. H., 2946
 Landaburu, L., 3696
 Landis, C., 164, 476, 4189
 Landis, J. T., 2734, 4550
 Landis, P. H., 2393
 Landsman, T., 3377
 Landy, E., 4165
 Lane, G. G., 2003
 Lane, H. A., 2043
 Lane, K. K., 4594
 Lang, A. R., 1038
 Langenstrass, K. H., 3066
 Langfeld, H. S., 351
 Langworthy, O., 2982
 Lanier, L. H., 404
 Lannert, V., 2795
 Lansdell, H., 831(a)
 Lapan, A., 4437
 Lapique, L., 2872
 Lapipe, M., 470
 L'Archevêque, P., 1312
 Laroche, C., 2595
 Larrabee, M. G., 1745
 Larsell, J. F., 381
 Larsell, O., 381
 Larsen, E. M., 3909(a), 3910(a)
 Larsen, J. F., 1868
 Lasaga, J. L., 1562
 Lassus, L., 4044
 Lasswell, H. D., 3677, 4551
 Lathrop, F. W., 1267
 Laub, G. R., 1489
 Lauer, A. R., 578, 3251, 3252
 Laurent, H., Jr., 1739
 Laurier, B., 900(a)
 Lauwerys, J. A., 200
 Lavos, G., 236, 2778
 Law, S. G., 1605
 Lawlor, G. W., 1110, 1163, 3608
 Lawrence, D. H., 4341(a)
- Lawrence, M., 2918, 4141
 Lawrie, C. H., Jr., 237, 579, 580, 2693, 2780, 3704, 3799, 4595(a)
 Lawson, E. K., 2465
 Lawton, G., 1343, 2526
 Laycock, S. R., 1278, 1912, 3264, 4416, 4417, 4552
 Lazarsfeld, P. F., 1194, 4213(a)
 Lazewitz, A. A., 4170
 Lazovik, A. D., 410, 4310
 Lender, A. L., 4489
 Learned, J., 1684
 Leary, D. B., 2156
 Leary, F. W., 1063
 Leatherland, L., 1527
 Leavell, U. W., 640
 Leavitt, H. C., 1512, 2313
 Leavitt, H. J., 2796, 4122
 Leavitt, W., 2757
 Ledbetter, F. G., 3265(a)
 Lee, A. M., 3678, 4566(a)
 Lee, W. Y., 3402
 Leeper, R. W., 170, 3330, 4342(a)
 Lefever, D. W., 233, 901, 1237
 LeGrand, Y., 3424
 Lehman, H. C., 405, 532, 1563, 3170
 Lehmann, E. L., 3349
 Leib, A., 1564, 4533
 Leichter, E., 2735
 Leibson, L. G., 658
 Leigh, P. R. W., 2215
 Leighton, D., 1192, 3171
 Leinik, R. E., 3350
 Leitch, M., 3632
 Leiten, N., 3155
 Lemay, E., 353
 Lempert, J., 2918
 Lend, H., 1785
 Lennox, M. A., 2873
 Lennox, W. G., 1111, 2659, 2873, 3026, 3027
 Leonard, E. A., 902
 Leonard, E. M., 1279
 Leonardo, R. A., 4077
 Leongómez Amador, A., 4078
 Leopold, W. F., 3505
 Lepley, W. M., 3716
 LeShan, L., 25
 Leuba, C., 352, 1348
 Le Vay, A. D., 3075
 Levin, M., 766
 Levine, E. M., 3961
 Levine, E. S., 3966
 Levinson, D. J., 533, 4386(a)
 Levy, D. M., 4401(a)
 Levy, H., 2431
 Levy, N. A., 767
 Lévy-Vaensi, J., 4223
 Lewin, B. D., 2196
 Lewin, H. S., 3313, 3679
 Lewin, K., 1946, 2728
 Lewinski, R. J., 627
 Lewinsky, H., 2704
 Lewinsky, H. L., 4418
 Lewis, A. C., 608
 Lewis, B. I., 3076
 Lewis, C., 1697
 Lewis, D., 3800
 Lewis, F. H., 3314
 Lewis, M. M., 1028
 Lewis, N. D. C., 2729, 2983
 Lewis, P. B., 2779
 Lewis, R., 2394
 Lewis, R. B., 1629
 Lewis, R. H., 3727
 Lewis, W. D., 3506
 Ley, E. S., 3378
 Lhermitte, J., 2883
 Liber, B., 2705
 Liberson, W. T., 2660
 Libet, B., 681
 Licht, M., 4387
 Licht, S., 1895
 Licklider, J. C. R., 1828
 Liddell, H. S., 3053
 Liddy, R. B., 609, 4227
 Lidz, T., 477
 Liefmann, E., 719
 Ligon, E. M., 201
 Linck, L. J., 478, 1503, 3609
 Lincoln, J. F., 2004
 Lind, A. W., 4536
- Lindahl, R., 1039
 Lindberg, B., 1112
 Lindemann, E., 1477(s), 1884, 2101
 Lindley, D. V., 1724
 Lindner, R. M., 1680, 2212, 2761, 2661, 2694, 2758
 Lindquist, N., 1698
 Lindsay, I. B., 2376
 Lindsley, D. B., 3924
 Linebarger, P. M. A., 3680
 Ling, B., 4414
 Ling, T., 1238
 Link, H. C., 202, 1961, 2706, 3643, 4053
 Lins, L. J., 610
 Linthicum, F. H., 2919
 Lion, E. G., 806, 1913
 Lippitt, R., 1044, 1947, 3644, 3681, 3967, 4108
 Lippman, H. S., 801
 Lippman, R. W., 1113
 Lippuner, O., 3697
 Lipsett, L., 3229
 Lipton, H. R., 2662
 Liss, E., 3100
 Litchfield, E. T., 3230(a)
 Littell, S., 743
 Little, H. M., 3610
 Littlefield, T. A., 3
 Littman, R. A., 2584
 Litwinski, L., 14
 Livermore, J. B., 2681
 Livingston, W. A., 433, 2860(a)
 Llinas, P. A., 3937
 Lloyd-Jones, E., 2466
 Locke, H. J., 3191
 Lockwood, R. A., 3452
 Lodge, G. T., 3202
 Loch, M. B., 1888
 Loebloowitz-Lennard, H., 2377
 Lorchle, W. E., 434, 1050
 Lorsch, F. S., 581
 Loewenstein, R. M., 2846
 Logre, B. J., 479
 Logre, J. B., 2950
 Lolli, G., 138
 Lombolt, M., 1074
 London, L. S., 3528
 Long, J. A., 1729
 Long, L., 3728
 Long, W. F., 1620, 2780, 3709
 Longhurst, J. U., 3912
 Longley, A. C., 4109
 Longstaff, H. F., 2096
 Lomba, R. M., 3842
 Loomis, C. F., 2395, 2730
 Loosli-Usteri, M., 2630
 Lopez, A. F., 2180
 Lorand, S., 2197
 Lorente de Nó, R., 3833, 3837
 Loucks, R. B., 4630(a)
 Louttit, C. M., 1914, 2296, 2527, 2541
 Love, W. R., 4476
 Lovell, C., 3753
 Low, F. N., 2897, 2898, 4273
 Low, J. O., 1975, 2411
 Lowe, H., 3607
 Löwenbach, H., 3034, 3600
 Lowenfeld, B., 2125, 3754
 Lowie, R. H., 3175
 Lowman, C. L., 2707
 Luchsinger, R., 2596
 Luckett, J. A., 3290(a)
 Luckiesh, M., 2899, 3425
 Ludvig, E. J., 44, 2572, 3417
 Ludwig, A. O., 2631
 Lund, D. W., 3911(a)
 Lund, F. H., 1565, 1566
 Lund, M., 2619
 Lundberg, D. E., 2072
 Lundberg, G. A., 985, 1195
 Lundberg, L. D., 3266
 Lundin, R. W., 2920, 4664(a)
 Lundquist, G., 2623
 Lundquist, R., 1855
 Luongo, E. P., 1612
 Lurie, L. A., 4470
 Lussier, I., 353
 Lussier, R., 945(a)
 Luton, F. H., 1702
 Lutz, J., 2624
 Lynch, J., 2560
- Lynkeus, J. P., 2961
 Lyonnet, J. H., 4490
 Lyons, E. A., 1468(s)
- McBean, D., 960
 McCaffery, M., 1280
 McCarthy, C. V., 769(a)
 McCartney, J. L., 4056
 McCarty, M. A., 3908
 McCaskey, C. H., 2242
 McCleary, R. A., 1829
 McClelland, D. C., 2695, 2931
 McClosky, H., 2097
 McClure, A. G., 2684
 McClure, J. A., 45
 McCluskie, J. A., 2512
 McCord, F., 2900
 Maccoby, E. E., 534
 McCord, F., 1456
 McCorkle, L. W., 1889
 McCormick, E. S., 139
 McCormick, H. G., 1256
 MacCorquodale, K., 2881
 McCoy, W. A., 3231
 McCulloch, C., 382
 McCutchan, K., 1807, 3931, 4327
 MacDonald, J., 1328
 MacDonald, M. A., 3611
 MacDonald, M. W., 801
 McDonald, W. T., 3232
 McDouall, B. H., 259, 582
 Macduff, M. M., 406
 McEachern, D., 2952
 McElroy, K., 3192
 McElroy, W. D., 1440
 McFarland, R. A., 1786, 1830, 2126
 McGann, M., 3267
 McGavie, J. S., 377
 McGill, V. J., 2061
 McGinnies, E., 2339, 4246(a)
 McGinnis, E., 1281
 McGrady, E., Jr., 381
 McGranahan, D. V., 2404
 McGrath, L., 285
 McGregor, I. S., 597
 McGugan, A. C., 2781
 Macht, D. I., 1051
 McIntire, J. T., 3755
 McIntyre, A. R., 2874
 McIntyre, S. C., 2025
 McIver, R. M., 1567, 2740, 4510
 McKeever, B., 2157(a)
 Mackenzie, C. G., 1054
 McKennie, E. G., 3612
 Mackie, R. P., 1896
 McKim, M. G., 4169
 McKinney, F., 506
 MacKinnon, D. W., 1948, 4110
 MacKinnon, J., 2984
 Mackworth, N. H., 583
 McLain, R. S., 4066
 McLean, J. A., 1114
 McMahan, E. A., 1064, 2198
 McMahan, H. G., 461
 MacMahon, J. F., 1115
 Macmillan, J. W., 4141
 McMurry, K. N., 3233, 4596
 McNair, F. F., 3143
 McNeill, H., 4062
 McNemar, Q., 2720
 McQuitty, L. L., 2782
 Madelung, G., 861
 Mäder, F., 40
 Madonick, M. J., 2297
 Maeder, L. M. A., 1856
 Magne, O., 1040
 Magnussen, G., 1463
 Magoun, H. W., 1387
 Mahl, G. F., 4235(a)
 Mahler, W. R., 3234, 4597
 Maier, N. R. F., 507, 770, 2234, 3912
 Mailloux, N., 353, 659(a), 986
 Mainardi, M., 1271
 Mainwaring, J., 4090
 Major, C. L., 903
 Malamud, W., 134, 140, 1504(a), 1513(a), 2235, 2642
 Malling, H. M., 91, 92
 Mallart, J., 3729
 Malm, R. B., 4274, 4311(a)
 Malmquist, S., 4214
 Malone, E. H., 508

- Mandelbaum, J., 3862
Mandel, M. M., 904, 905
Maninger, R. C., 240
Mann, C. W., 407, 2378, 2493
Mann, H. B., 3351
Mannheim, H., 3698
Manson, W. P., 203, 509, 2243, 2494
Mapel, E. B., 3709
Marburg, O., 1116
Marcuse, F. L., 204
Maresca, R., 3395
Margaret, A., 630
Margenau, H., 2528
Margolin, L. J., 1568, 3195
Margolin, S., 3606
Margolis, H. M., 771
Margolis, L., 480
Märk, A., 4312
Markey, O. B., 1514
Markey, S. C., 4388(a)
Marka, E. S., 3352
Marland, A. E., 3983
Marquis, D. G., 660, 4142, 4195
Marquis, R. J., 2112
Marshall, H., 4438(a)
Marsico, W. E., 3734(a)
Marston, W. M., 2415
Martens, D., 408
Marti, F., 535
Martin, D. H. H., 1407
Martin, D. R., 2350(a)
Martin, D. W., 3337
Martin, F., 3950
Martin, H. G., 845
Martin, H. W., 4471(a)
Martin, L. C., 2127, 3426
Martin, M. F., 2128, 2513
Martin, P. W., 3682
Martin, S. F., 3417
Martin, W. W., 2821
Martius, H., 2643
Marty, P., 122
Marzi, A., 4143
Mase, D. J., 1117, 1490(a)
Mas-Guindal, J., 3315
Maskin, M., 862
Masland, M. W., 1491
Maslen, S., 2403
Maslow, A. H., 661, 4567
Maslow, P., 2326
Mason, C. W., 566
Massopust, L. C., 2560
Masuoka, J., 2379(a)
Matheny, W. C., 4323(a)
Mathew, K., 3801
Mathew, A., 2985
Mathews, W. M., 4491(a)
Mathewson, R. H., 2026
Matthew, A. V., 224
Matthews, B. H. C., 1831
Maucker, J. W., 4094
Maucker, W., 2467(a)
Maurer, K. M., 286, 4514(a)
Maxcy, E. C., 3235
Maxfield, J. P., 3442
Mayer, J. S., 3799
Mayers, A. N., 1164, 2609
Mayers, E. B., 1164
Mayman, M., 4389(a)
Mayo, E., 863
Mayr, E., 2951
Mead, A. R., 1650
Mead, L. C., 864
Mead, M., 1569(a), 2327, 3172, 3173, 3663, 3664
Meadows, P., 832
Medoff, H. S., 1476
Meduna, L. J., 1897
Meehl, P. E., 481, 510, 511, 2097, 3372
Meek, W. J., 2179
Meenes, M., 2933
Meerloo, A. M., 205, 354
Mehta, H. P., 4048
Meier, C. A., 1457
Meiers, J. I., 3613, 4016
Meili, R., 2158(a), 3362, 4369
Meister, F. J., 1793
Meister, R., 2838, 4537
Meister, R. K., 4426(a)
Meld, M. B., 1282
Mellanby, E., 2564
Meltzer, B. N., 129
Mendenhall, L. A., 1408(a)
Meng, H., 3054, 3055, 3056, 4472, 4479
Menninger Foundation, 4228
Menninger, E. A., 445, 1076, 2213, 3122
Menninger, W. C., 1878, 2292, 2986, 3529, 3573
Menninger-Lerchenthal, E., 3479
Menzel, M., 3008
Menzies, H. F., 2514
Mericle, E. W., 141
Merrick, N. L., 1651
Merrill, P. K., 3665(a)
Merton, R. K., 2406, 2432
Messenger, V. M., 2515(a)
Metcalfe, H. H., 611
Mets, O., 3893
Metzger, F. C., 3077
Meyer, A., 362
Meyer, A. F., 4079
Meyer, E., 3316
Meyer, L. N., 383
Meyer, M., 362
Meyer-Holzapfel, M., 3975
Meyers, C. E., 946, 2516(a)
Meyerson, I., 355, 656, 4224, 4360
Meyerson, L., 4288(a)
Meyknecht, A. P. J., 772, 773, 774
Michaels, J. J., 1506, 1507, 2517, 4492
Mickelsen, O., 77
Mickey, J. S., 137, 1471
Miles, L. J., 3709
Miles, W. R., 1377, 2551, 2847
Millard, C. V., 2023
Millen, J. L. E., 3818(a)
Miller, D. L., 4190
Miller, F. S., 3236
Miller, G. A., 1444, 2573, 3443, 3683, 4289(a)
Miller, H., 455, 1077
Miller, H. E., 163
Miller, I. F., 4144
Miller, J. A., 990
Miller, J. C., 3009
Miller, J. G., 2298
Miller, J. R., 3268
Miller, M. E., 1118
Miller, M. M., 2759
Miller, M. R. T., 536
Miller, N. E., 4343(a)
Milligan, W. L., 2262
Mills, J., 2741
Mills, J. N., 720
Milner, E., 906(a)
Milton, E. O., 1506, 1740
Minajev, F. F., 1741, 1817
Minnesota Society for Applied Psychology, 4229
Minton, J. P., 1787
Mintz, A., 1652
Miotto, A., 1445
Misiak, H., 2569
Mitchell, C., 907
Mitchell, E. T., 662
Mitchell, J. H., 3574
Mitchell, P. H., 4627(a)
Mitchell, S., 3443
Mittra, D. N., 1570
Mittra, S. C., 3788, 3863, 4063
Mitscherlich, A., 2632
Mittelmann, B., 871, 1920, 2231, 2237, 2244, 3575
Mitzel, M. A., 3717
Moellenhoff, F., 3174
Mognihan, J. F., 1653
Mohsin, S. M., 3951
Mold, H. P., 4598
Moldover, J., 23
Molina, M. F., 3203
Molle, S. A., 1507
Molomut, N., 2182
Moloney, J. C., 206, 1885, 2045, 3042
Monash, L., 3756
Moncreiff, R. W., 384
Moneo Dias, A., 3764
Monnier, A. M., 1029
Montagu, M. F. A., 3782(a), 3948
Montague, H., 2130
Montandon, E., 4191
Montell, R. L., 722
Montgomery, B. L., 1616
Montgomery, J. C., 2050
Montroll, E. W., 3353
Mood, A. M., 1354
Moodie, W., 4502
Moon, P., 46, 356
Moore, P., 3757
Moore, B. E., 1887, 2299
Moore, B. V., 2783, 3237
Moore, C. E. A., 3582
Moore, H., 3238, 4599(a)
Moore, J. E., 4611(a)
Moore, K. G., 711, 3363, 3364
Moore, M., 1857
Moore, R. F., 1409
Moore, T. V., 1472, 4394(a)
Moore, W. E., 4631
Moraitis, D., 3123
Morales, M. F., 3403
Moran, P. A., 1725
Moreau, G. Y., 918(a), 1283
Moreno, F. B., 1196, 2263, 4067
Moreno, J. L., 1119, 1165, 2086, 2366, 3614, 3615, 3616, 4068
Morf, G., 3789, 4192
Morgan, C. T., 1829
Morgan, D. H., 190
Morgan, D. W., 775
Morgan, E. A., 2170
Morgan, H. G., 1571
Morgan, J. D., 336, 2300
Morgan, J. J. B., 2505
Morgan, M. W., 2901, 3427
Morgan, O. G., 3057
Morgenthau, W., 2760, 4017, 4390
Morgenthau, H. J., 4553
Moriarty, J. D., 1569
Morlan, G. K., 207
Morris, D. W., 3583
Morris, H., 3566
Morris, M., 612
Morris, W. W., 3633
Morrissett, L. E., 1788
Morrow, C. T., 1789(a)
Morrow, W. R., 1378
Morse, A. P., 4215
Morse, H. T., 1244
Morse, W. C., 3101
Morse, W. W., 361, 365
Morsch, J. E., 3291, 4344
Morton, G., 2952
Morton, J. A., 287
Mortier, V., 1284
Möschlin, E., 4419
Moses, L., 1886
Mosier, C. I., 908
Moss, C. R., 776
Moss, E., 409
Moss, R. A., 4018
Mosse, E. F., 142
Mossner, E. C., 1735
Mosteller, F., 1355
Mote, F. A., 3430
Mott, F. J., 109, 447
Mottershead, E., 241
Moulton, L. G., 2811
Moulton, A. C., 4202
Mowrer, O. H., 1041, 2360, 4324(a), 4358(a)
Moyle, H. B., 801
Moynihan, J. F., 4038
Moynihan, M., 2951
Mueller, C. C., 385, 3419, 3420
Mueller, D. D., 139
Mueller, W. J., 3269
Muhsam, H. V., 1726
Mukerjee, M. J., 3968
Muller, E. A., 1235
Müller, U., 3204
Munch, P. A., 4538
Mundel, M. E., 2433
Munro, D., 3980
Munro, M., 1972
Munroe, R. L., 3480
Munz, D. J., 1410(a)
Murphy, F. J., 846
Murphy, G., 1065, 1069, 1937, 2199, 3684
Murphy, J. P., 2866
Murray, E., 1197
Murray, H. A., 3530, 4111
Murray, J. M., 2987
Mursell, J. L., 288, 833, 1285
Musatti, C. L., 15
Myer, L. N., 2129
Myers, C. S., 1813
Myers, G., 2267
Myers, R. N., 3574
Myers, R. R., 1239
Myerson, A., 1464
Myklebust, H. R., 2027, 3758
Nachmansohn, D., 686, 1759
Nadell, R., 1318
Nahm, M. C., 4580
Naidu, P. S., 3790, 3913
Nance, L. S., 143
Nance, R. D., 1832
Napoli, P. J., 1166, 3144, 3634(a)
Naranick, C. S., 1898
Nath, S. P., 560
National Committee for Mental Hygiene (Canada), 1198
National Council of Social Service, 3507
National Institute of Industrial Psychology, 2005
National Opinion Research Center, 1199
National Research Council, Committee on Selection and Training of Aircraft Pilots, 2006
National Vocational Guidance Association, 2790
Naumburg, M., 4503
Nauta, W. J. H., 93
Naville, F., 3331
Naville, P., 3730
Neal, G. A., 1080
Neal, L. E., 4227
Nebreda Merino, J., 3731
Needles, W., 482
Neher, B. H., 4302
Nemec, L. G., 1654
Neu, D. M., 3444
Neubert, F. R., 2902
Newbert, N., 1169
Newby, H. A., 3445
Newell, N. L., 1870
Newkirk, L. V., 1289
Newman, A. S., 2180
Newman, B., 2459(a)
Newman, E. B., 3446
Newman, H. W., 3821
New York Academy of Medicine, 3976
Nichols, A. S., 2374
Nichols, R. H., Jr., 2112
Nicole, J. E., 3977
Nielsen, J. M., 26, 2222
Nielsen, W. A., 208
Nimkoff, M. F., 2518
Nimuendajé, C., 3175
Nissen, H. W., 2055
Nissen, I., 3645
Niven, J. L., 1786, 2126, 3847(a)
Nix, E. H., 1655(a)
Nixon, D. L., 2875
Nobre de Mello, A. L., 2841
Noetzel, E. S., 1899
Nolan, P., 2909
Nordmeyer, K., 2644
Norman, E. G., 1503
Norman, R. D., 4646(a)
Norris, E. B., 435, 718
Northway, M. L., 1200, 1201, 2367
Norval, M. A., 94
Nunes, M., 1915
Nutt, A. B., 1790
Nyswander, D., 1294
Oaks, R. E., 3508
Oberndorf, C. P., 2200, 2264, 2761
O'Brien, B., 1411
O'Brien, T. P., 3666
O'Connor, E., 4160
Ødegård, Ø., 1871
Odell, C. W., 2077
Odium, D. M., 3509
Offner, F., 27
Ogata, C., 4594
Ogle, K. N., 1412
O'Gorman, W. D., 2328
Ohio University, 3864
Ojemann, R. H., 16, 537, 1699
O'Keefe, D. E., 2292
O'Kelly, L. I., 3838

- Older, H. J., 2556
O'Leary, J. L., 2993
Olmsted, J. M. D., 3811
Olson, A., 3332
Olson, E., 1642
O'Neil, B. R., 690
Opler, M. E., 1572
Oppen, J. E., 3969
Orbeli, L., 2565
Orchinik, C. W., 65
Orleans, J. S., 4600
Orr, D. W., 777, 1962
Orta, F., 3176
Ortmann, O., 663
Oseretsky, N., 3776
Osmond, C. E., 68, 1583
Østergaard, T., 1473
Østlyngen, E., 2597
Otnes, H. R., 2421
O'Toole, C. E., 4668
Otterback, V. L., 3940(a)
Overholser, W., 778, 779
Overman, R. R., 3822(a)
Owen, J. W., 2633
Owens, W. A., 4039, 4043
Oxlade, M. N., 4177
- Pace, C. R., 4166
Pacella, B. L., 2333
Packard, V. O., 1966
Paddle, K. C. L., 3010
Page, H. E., 4601(a)
Pal, M. N., 721, 3035
Palay, S. L., 3404
Palmer, E. N., 1573
Palmer, H., 483
Palmer, M. F., 3428
Palmgren, P., 2840
Pangle, G. W., 3131
Pankaskie, M., 2468(a)
Panken, J., 4019
Panzer, H. I., 962
Parcell, B., 1864
Park, J., 947(a)
Parker, C. S., 1120
Parker, E. N., 2396
Parker, J. M., 1574
Parsons, T., 987
Partridge, M. A., 144
Partridge, R. C., 2131(a)
Pasamanick, B., 948
Pascal, G. R., 3102
Pascal, J. L., 2132
Pasquarelli, H., 3557
Paster, S., 3103
Paterson, A. S., 4494
Paterson, D. G., 386, 1183, 1236, 1286, 1667, 2791, 3239, 3372
Pathman, J. H., 20, 361, 365
Paton, W. D. M., 3823
Patrick, C., 209, 2159
Patt, D. I., 3254
Patt, H. M., 2133, 2953
Patterson, C. H., 988, 1121, 1313, 1518
Patterson, L. C., 3483
Patton, R. A., 410, 484, 4310, 4314(a)
Paul, W. S., 242
Payne, S. M., 664, 745
Peach, H., 1240
Peacher, G., 3584
Peacher, W. G., 1492
Peak, H., 834, 4057
Pear, T. H., 2696, 2822, 3365, 3366
Pearce, J. D. W., 4579
Pearse, R. W. B., 2127
Pearson, G. B., 1916
Pearson, G. H. J., 756, 1329
Pearson, M. M., 3617
Pease, D. C., 1440
Peatman, J. G., 2407, 2521, 3354
Pechoux, R., 4370
Pechum, R. A., 2663
Pedersen, R. A., 4665(a)
Pedersen-Krar, G., 2201
Peel, E. A., 210
Peixotto, H. E., 289, 2160
Peller, L. E., 3510
Peller, S., 211
Pence, O. E., 2722
Penhale, K. W., 1791
- Pearse, L. S., 145, 780, 2800, 3402
Pepinsky, A., 2708
Pepinsky, H. B., 4495(a)
Pepinsky, P. N., 4495(a)
Pepper, S. C., 4203
Perrasa, G., 2046
Perilhou, P., 4247
Perkins, J. F., Jr., 2183
Perlman, H. B., 2073
Perlman, J., 3317
Perla, F. S., 3333
Perlstein, M. A., 1493
Perry, F. V. N., 1656(a)
Perry, I. H., 4091
Pescor, M. J., 2762
Peterman, M. G., 1700, 2620
Peters, C. C., 2078
Peters, H. N., 1167, 2161
Peters, M. O., 4504
Peters, R. B., 3011
Peterson, C. B., 1575(a)
Peterson, E. H., 1287
Peterson, G. E., 2112
Peterson, G. M., 2056
Petrie, A., 3048
Pettitt, G. A., 2380
Pfeffer, A. Z., 146, 3036
Pfeiffer, J., 949(a), 2047
Phelps, S. P., 3759
Pheolov, P. P., 47
Philip, B. R., 2662, 2903
Phillipsen-Frahm, H., 2625
Phillips, M., 2180
Phillips, E. L., 3058, 3059, 4505(a)
Phillips, H., 1288
Piaget, J., 3865
Pickford, R. W., 3429
Pierce, F., 3318
Pierce, H. O., 928
Pieron, H., 2854, 2889, 3253
Piers, G. J., 726
Pile, F. M., 1330
Pillsbury, W. B., 2162
Pinanski, J., 2664
Pincus, G., 93, 134, 1446(a), 1504(a)
Pinegin, N. I., 48
Pinel, P., 4030
Pinkus, H., 781(a)
Pinson, E. A., 4260
Pintler, M. H., 4422
Pirenne, M. H., 1792
Pisculich, E. R., 4651
Pi Sufer, A., 2575
Pitts, L. B., 1285
Pitts, R. F., 436
Planques, M. J., 96
Planty, E., 3214
Platt, J. H., 3585
Plotke, P., 2093, 3145
Plourde, P., 2134
Podestà, H., 387
Podolsky, K., 1478, 1479, 1529
Polatin, P., 3037
Pollack, I., 4290(a)
Pollock, H. M., 3104
Pollock, L. J., 3388
Poort, R., 2626
Poos, E. E., 2135
Popenoe, P., 2301, 3558
Portenier, L. G., 2329, 3177
Porter, E. H., Jr., 3373
Porter, E. L., 2134
Porter, H., 3240
Porter, J. M., Jr., 710
Porter, N. W., 909
Porter, R. B., 4043
Porter, W. T., 3794(a)
Porterfield, A. L., 538, 1601, 4554
Porteus, S. D., 2265, 2381, 2493
Portis, S. A., 4473
Post, K. F., 2665
Post, W. L., 485
Postman, L., 69, 1444, 2339, 2576, 2932, 4246(a), 4345(a)
Potter, A. A., 2029, 3709
Potter, E. H., 3961, 4391(a)
Potter, V. R., 990
Powdermaker, F., 2988
Poyer, G., 3156
Prados, M., 1168, 1485, 3326
Pratt, F. H., 3794(a)
- Pratt, J. G., 1066, 2202
Prentice, W. C. H., 4346(a), 4347
Pressey, S. L., 4652
Preston, M. G., 2163
Preston, R. C., 3270
Prevey, E. E., 835
Price, G. M., 157
Price, L., 782(a)
Princeton University, Fire Control Research, 243, 244, 245, 246
Probst, J. B., 2434
Proctor, L. B., 3612
Proffitt, M. M., 1289
Pronko, N. H., 1049, 2928
Pross, E. L., 1290
Prugh, D. G., 783
Pugh, G. S., 290
Pulver, M., 3481
Putnam, T. J., 1760, 2944, 3474
- Quarrington, B., 2367
Queen's University, Department of Industrial Relations, 2435
Quiroz Cuarón, A., 4571
- Raaf, J. E., 3830
Rabin, A. I., 628, 4450(a)
Radde, C. A., 4261
Rademacher, E. S., 3319
Rademaker, J. A., 4539
Radke, M. J., 950
Radon, W., 865
Radvanyi, L., 2543
Ragdale, C. E., 1042
Raines, G. N., 3618
Raines, R. C., 2484
Raju, P. T., 3947
Rali, M. E., 2812
Ram, P., 4001
Rambert, M., 110
Ramm, K. M., 784(a), 3590
Ramos González, S., 291
Ransperger, A. G., 1344
Ramsey, J., 1930
Rand, G., 1020, 1403, 1404, 4263
Rand, H. A., 1530
Randall, F. E., 3254
Randall, G. C., 3482, 3566
Randall, W. C., 1052
Randolph, J. M., 3162(a)
Rank, B., 801
Rannels, E. W., 4092
Ranney, J. C., 1202
Ranull, S., 4540
Rao, C. R., 3353
Rao, V. L., 2136
Rapaport, D., 814, 1379, 3122, 3379
Raphael, W., 3241
Rapaport, M. F., 4021
Rappaport, J. H., 3807
Rashkts, H. A., 1122, 4506(a)
Rasmus, M., 3271
Rasmussen, A. T., 4244
Rasmussen, H., 3894
Rathbun, C., 1701
Raths, L., 547
Rausch, O. P., 2473
Raven, G., 1053
Raven, H. C., 2954
Rawlins, F. I. G., 2585
Rawlins, I., 1203
Ray, A. M., 1705
Ray, G. B., 3389, 3390
Ray, L. H., 3390
Ray, M. B., 147
Ray, W. S., 2164
Raybould, A. B., 4167(a)
Rayhill, C. A., 412
Raymond, G. A., 161
Raymond, J., 3342
Read, G. W., 613
Read, K. H., 3970
Reca, T., 1331
Recktenwald, L. N., 2028
Redfield, R., 1576
Redl, F., 3320
Redlich, F. C., 1007, 1769, 1887
Redmon, E. J., 2397
Redslob, E., 3060
Reed, A. Y., 910
Reed, H. B., 411, 2469
Reed, H. L., 101
Reed, M. F., 2786
- Rees, J. R., 486, 3530
Rees, L., 4439
Reese, T. W., 4275(a)
Reger, S. N., 3445
Reid, D. K., 3105
Reid, G., 1657(a), 3760
Reid, J. E., 4080
Reider, N., 1413
Reifenstein, E. C., Jr., 1123
Reiher, H., 1793
Reik, T., 539
Reilly, M. G., 815
Reimert, L. J., 3866
Reinartz, E. G., 3531
Reis, L., 4204
Reiser, M., 698
Reiss, B. F., 1577, 3941, 4316(a)
Reitman, F., 540, 3038
Remmers, H. H., 555, 572, 2029, 3667, 4541
Render, H. W., 4022
Rennie, T. A. C., 2218, 2302, 2436, 3106, 3107
Renshaw, B., 2876
Rethlinghafer, D., 1815
Revens, R. L., 1821
Révész, G., 1427
Rey, A., 4040, 4178
Reymert, M. L., 50
Reynolds, B. C., 2218
Reynolds, E. L., 1332
Reynolds, W. A., 989
Resnikoff, L., 2266
Rhine, J. B., 1067
Rhines, R., 1387
Rhode, C., 813
Rice, P. B., 1043
Rich, G. J., 324
Rich, P., 139
Richard, G., 4420
Richards, E. L., 1124
Richards, T. W., 148, 785
Richardson, H. B., 1125
Richardson, J. A., 1414
Richardson, L. F., 4049
Richardson, M. W., 4112, 4113, 4602(a)
Richtel, C., 4440
Richmond, M. S., 2747
Richter, C. P., 421, 4315
Ridenour, N., 3321
Riemer, S., 2470
Riese, W., 3367
Riesen, A. H., 1054, 4348(a)
Riggs, F. W., 1204
Riggs, L. A., 247, 3430, 4276(a)
Rikelman, H., 2763
Riker, B. L., 51
Ripley, H. S., 2989
Ritchie, B. F., 2165, 2168
Rittler, M. C., 1020, 1403, 1404, 4263
Rivlin, H. N., 2218
Roback, A. A., 1530
Roback, H. N., 1126
Robbins, C. J., 1578(a)
Robbins, L. D., 3272(a)
Robbins, L. L., 1904, 3635
Robbins, S. D., 3586
Roberts, A. D., 3012
Roberts, K. E., 3971
Roberts, S. O., 4542(a)
Robertson, G. G., 2245
Robertson, I. V., 3668
Robertson, N. E., 1973
Robertson, W., 865
Robertson, Y., 3049
Robinson, E. F., 1333
Robinson, F. P., 1127, 1658, 3116
Robinson, H. A., 4653(a)
Robinson, H. M., 614
Robinson, L. J., 1008
Robinson, L. N., 4081
Robinson, M. F., 1128
Robinson, M. L., 2933
Robinson, M. Z., 1694
Robinson, R. A., 3652
Robinson, W. S., 3732
Robison, S. M., 1205
Rockmore, M. J., 504, 2322
Rockwell, F. V., 3061
Rodgers, F. T., 2161
Rodgers, T. C., 843, 4023
Rodrigo, M., 1345

- Rodriguez Montoya, M. I., 2955
 Roe, A., 816, 817, 2330, 3718, 4392
 Roeder, W. S., 4666(a)
 Rogalski, T., 388
 Rogers, C. R., 487, 786
 Rogers, M., 1214, 2437
 Rogers, R. C., 1617
 Rogerson, C. H., 2246
 Róheim, G., 111, 541, 1858, 2382, 4543
 Rohracher, H., 2838, 4193
 Rohrer, J. H., 412
 Rojas, N., 1981
 Rokeach, M., 542
 Rokhlin, L. L., 1129
 Rollin, H. R., 3013
 Román-Goldzieher, K., 3462
 Romano, J., 1076, 3073, 3831
 Rome, H. P., 3619
 Rome, S. C., 1428
 Romein, J. M., 543
 Rondelierre, J., 470
 Rönne, H., 1794
 Rosales, F. M., 4421
 Rösch, J., 4277
 Rose, A. A., 1579
 Rose, A. M., 3653
 Rose, A. S., 3028
 Rose, D., 3958, 4402
 Rose, F. C., 292
 Rosebery, H., 1291
 Roseman, E., 3544
 Rosen, G., 1458
 Rosen, H., 1130, 2990
 Rosen, J. H., 488
 Rosenbaum, M., 3073
 Rosenberg, E., 787
 Rosenthal, H. J., 584
 Rosenthal, P., 3620
 Rosenwald, A. K., 4441(a)
 Rosenzweig, S., 1380, 1916, 2331, 2851, 3062
 Ross, C. C., 1292
 Ross, D. A., 2112, 3890
 Ross, S., 3419
 Rossini, V. D., 1531(a)
 Rostas, S. M., 292
 Rotenberg, G., 951, 1917
 Roth, G. M., 3391
 Roth, N., 788
 Roth, W. F., Jr., 1702
 Rothchild, L., 4302
 Rothe, H. F., 248
 Rothenberg, M. A., 636
 Rothenberg, S., 2962
 Rothman, T., 3839(a)
 Rothschild, D., 4451
 Rothstein, M. G., 789
 Rotman, M., 50
 Rotter, J. B., 2332, 2697, 4107, 4393(a)
 Rottersman, W., 212
 Roubicek, J., 1131
 Roubinovitch, J., 4480
 Roucek, J. S., 1293
 Rowbotham, G. F., 52
 Roy, D., 832
 Roy, S. N., 2552, 4114
 Royster, R. F., 860, 866, 886, 887, 888
 Rubin, B., 1507
 Rubin, H. E., 1132
 Rubinstein, H. S., 4245
 Ruble, D. C., 3036
 Ruch, F. L., 585
 Rucker, I. N., 952(a)
 Ruckmick, C. A., 213
 Rudmose, H. W., 3255
 Rudolf, G. de M., 1133
 Ruedi, L., 53
 Ruegnitz, M. G., 1134
 Ruesch, J., 1888, 3483
 Ruff, S., 249
 Rugen, M. E., 1294
 Rundquist, E. K., 4115
 Rusch, H. P., 990
 Rush, B., 4024
 Rushton, W. A. H., 1756
 Rusinov, V., 3843
 Rusk, H. A., 4025
 Russell, D. H., 2030, 3668
 Russell, E. S., 4317
 Russell, F. H., 1938
 Russell, J. D., 2007
 Rust, K., 4401(a)
 Rutishauser, E., 2813, 3699
 Ryan, E. J., 1484
 Ryan, J. J., 2993
 Rymarkiewiczowa, D., 1381
 Rynin, D., 2927
 Sachs, E., 1795
 Sacha, H., 3157
 Sacha, M., 1205
 Sackett, R. S., 4349(a)
 Sadler, W. S., 2610, 2764
 Saenger, G., 4544(a)
 Salmon, P. J., 293
 Salomon, A. D., 2577
 Sal y Rosas, F., 3559(a)
 Salzman, L., 3108
 Sánchez, L. J., 4082
 Sand, A., 3823
 Sandels, S., 1334
 Sanders, F. K., 28, 687, 2885
 Sanderson, M. H., 628
 Sandler, S. A., 3576
 Sandon, F., 667
 Sanford, R. N., 544, 818, 1927, 2333
 Santaló, L. A., 3356
 Sarason, E. K., 3029
 Sarason, S. B., 3029, 4391(a)
 Sarbin, T. R., 448
 Sargent, H., 3109
 Sarlin, C. N., 1135
 Sartain, A. Q., 250, 309, 1532, 1681
 Sauble, L., 1300
 Saul, L. J., 1136
 Saulnier, C., 2823
 Savage, B. M., 294
 Saxe, C. H., 2667
 Scates, D. E., 1264
 Schachtel, E. G., 2934
 Schachter, M., 1918, 3014, 3537, 3538, 4474
 Schachter, S., 4618, 4619, 4278
 Schafer, R., 814, 1379, 3122
 Schafer, S., 3632
 Schaffner, B., 2334, 3152
 Schaller, W. F., 1137
 Schamp, H. M., 54
 Schamp, J. R., 54
 Schär, H., 3673, 4555
 Scharrer, E., 3404
 Schauer, G., 1206
 Scheffer, R., 2471(a)
 Scheidlinger, L., 3110
 Scheidlinger, S., 3110
 Scherz, F. H., 1580
 Schick, A., 3078
 Schiele, B. C., 1138
 Schiller, M. A., 57
 Schiller, P. H., 4350(a)
 Schilling, C. W., 2784
 Schilling, R., 867
 Schless, B., 790
 Schlesser, G. E., 911
 Schletter, E., 2991
 Schlotter, B. E., 3015
 Schmid, A. E., 2137
 Schmid, J., Jr., 991
 Schmideberg, M., 1223, 2303, 2416, 4026, 4083, 4467
 Schmidt, F., 2417
 Schmidt, B. G., 1659(a)
 Schmidt, C. F., 2172
 Schmidt, D. G., 561
 Schmidt, E., 2685
 Schmidt, I., 249
 Schmiterlow, C. G., 1447
 Schneck, J. M., 151, 2247
 Schneeberger, F., 3761
 Schneider, D. E., 2921, 4332(a)
 Schneider, E., 3914
 Schneider, H., 791
 Schneider, H. A., 1349
 Schneider, H. W., 992
 Schneider, J. C., 641
 Schneider, K., 792, 2611
 Schneirla, T. C., 1207, 2956
 Schnell, D. M., 3322
 Schoenfeld, W. N., 696, 4287
 Scholl, C. E., Jr., 4585(a)
 Scholl, D., 3398
 Schomer, H., 615
 Schonbar, R. A., 2166
 Schorer, E., 668
 Schorger, A. W., 4248
 Schou, H. L., 1473
 Schuell, H., 1494, 3587
 Schuhl, P. M., 545
 Schulte, H., 763
 Schulte, H. F., 2138
 Schultz, K. S., 2438
 Schultzer, B., 2709
 Schumacher, H. C., 325, 489, 1139
 Schwab, R. S., 2621
 Schwartz, B. D., 4660(a)
 Schwarz, F., 366, 367
 Schwarzmann, A., 2124
 Schwebel, M., 3273
 Schweickart, E. F., 547
 Schwerin, K., 3679
 Scobee, R. G., 2904
 Scofield, C. F., 2408
 Scofield, E. H., 3400
 Scott, I. D., 4129
 Scott, J. P., 1931, 4318(a)
 Scottish Council for Research in Education, 616
 Scow, R. O., 1833
 Scully, J., 4279
 Seago, D. W., 546, 3178
 Seagoe, M. V., 3735
 Searle, L. V., 4319(a)
 Sears, P. S., 4422
 Sears, R. R., 2335, 3380, 4422
 Seashore, C. E., 2398, 2710
 Seashore, H. G., 3915, 3916
 Seashore, R. H., 2992
 Seay, M. F., 617
 Seclet-Riou, F., 4654
 Seeman, J., 965
 Seeman, M., 1208
 Segall, G., 4249
 Segner, E. F., 1281
 Seguin, C. A., 3334, 3577(a)
 Seibert, E. W., 1295, 2472
 Seidenfeld, M. A., 2707, 3124, 3591, 4041, 4423(a)
 Seidler, R., 2418, 3063
 Seip, H. S., 1581(a)
 Seitz, C. P., 1797
 Selger, R. V., 2304, 2758, 2765, 3987
 Sellers, W., 4361
 Selling, L. S., 326, 2419, 2666, 2766
 Sells, W., 793(a)
 Sellitz, C., 4531(a)
 Semanek, I. A., 579
 Semenovskaja, E. N., 43
 Semler, H. G., 3709
 Sen, I., 3791
 Senerchia, F. F., Jr., 3560
 Sengupta, N. N., 3895
 Senn, M. J. E., 327
 Senter, D., 3179
 Setzer, H. W., 722
 Seward, J. P., 2935
 Sewig, R., 4280
 Seyfert, W. C., 1651
 Shaffer, L. F., 2612
 Shaffer, R. H., 3274(a)
 Shagass, C., 4311(a)
 Shakow, D., 1382, 4452(a)
 Shanahan, W. M., 1900
 Shannon, J. R., 3484
 Shapleigh, G. S., 1157
 Sharp, H. C., 712
 Sharpe, E. F., 836
 Sharpley, F. W., 3431
 Shartle, C. L., 993
 Shaskan, D. A., 3621, 3622
 Shaver, E. L., 1296
 Shaw, W. A., 2936, 3446
 Sheard, C., 1796, 3391
 Sheffield, E. F., 994, 1660
 Sheffield, F. D., 66
 Sheffield, N. M., 1660
 Sheldon, H. D., 1367
 Shen, E., 1356, 1357
 Shepherd, B., 1415(a)
 Sheps, J. G., 3030
 Shere, M., 1493
 Sheriff, M., 3335, 4568(a)
 Sherman, A. W., Jr., 214
 Sherman, I. C., 57
 Sherman, M., 4168
 Shields, A., 1508
 Shilling, C. W., 2970
 Shils, E. A., 837, 4525(a)
 Shipley, W. C., 251, 1169
 Shipton, H., 1762
 Shirley, M. M., 846
 Shlaer, S., 1027
 Shneidman, E. S., 171, 912
 Shock, N. W., 2814, 2815
 Shoobs, N. E., 1297
 Shor, J., 4653(a)
 Shores, J. H., 3762
 Shortt, L., 4458
 Shotwell, A. M., 847
 Shugerman, E. E., 4160
 Shultz, I. T., 2439
 Shurrager, H. C., 70
 Shurrager, P. S., 3468
 Sieben, W., 4513
 Siegel, M., 838
 Siegel, M. G., 172, 173, 3146(a)
 Siegel, P. S., 413, 1814, 1879, 4309(a)
 Silberstein, L., 2905
 Silfverakjöld, B. P., 1447
 Sillman, L. R., 164, 1872
 Silver, E. H., 3252
 Silverman, D., 2420, 2767
 Silverman, L., 2138
 Silverman, S. R., 699, 4291
 Silverman, S. S., 1932
 Sim, M., 3532
 Simmel, E., 669, 1963, 1964
 Simmel, M., 3316
 Simon, B., 2667, 2993, 4453
 Simon, B. K., 1140
 Simon, C. T., 1335
 Simon, M., 490
 Simons, D. J., 1388, 3061
 Simonson, E., 3327, 3844(a), 3867(a), 3868(a)
 Simpson, M. M., 180
 Simrall, D., 2937
 Sims, V. M., 1251
 Sinden, R. H., 2906
 Singer, E., 155
 Singh, I., 2184
 Singh, K., 2613
 Singh, S. I., 2184
 Sinha, B. M., 4320
 Siskel, J., 4242
 Sisson, E. D., 4116
 Sivian, L. J., 3447
 Sjaardema, H., 638
 Skard, S., 2907
 Skeels, H. M., 4371(a)
 Skillern, P., 3031
 Skinner, B. F., 414
 Skodak, M., 4371(a)
 Skoglund, C. R., 89, 90, 1742
 Slater, E., 4058
 Slater, P., 281
 Slavson, S. R., 2267, 3623
 Slaymaker, R. E., 1661
 Sloan, L. L., 389, 3432(a), 3862, 3869
 Sloane, A. E., 3870
 Slochower, M. Z., 1336, 1337
 Smith, A. A., 700(a)
 Smith, B. M., 2336
 Smith, G. H., 343, 2351
 Smith, G. M., 670, 1448, 1797
 Smith, H., 252
 Smith, H. B., 1712
 Smith, H. G., 2268
 Smith, H. L., 2473
 Smith, H. P., 2474, 3275
 Smith, H. W., 3205
 Smith, J. H., 4216
 Smith, K. R., 253
 Smith, K. U., 422, 2566, 4403(a)
 Smith, L. A., 3400
 Smith, L. F., 2492
 Smith, L. L., 1662(a)
 Smith, M., 548, 839, 1209, 2827
 Smith, M. B., 3654
 Smith, M. F., 1338
 Smith, M. H., Jr., 415
 Smith, P. K., 1449, 1450
 Smith, S., 1030
 Smith, S. B., 2792
 Smith, S. W., 3404
 Smoke, K. L., 2167
 Smythe, H. H., 1582(a)

- Snedeker, A. W., 3117
 Snow, H. B., 3700
 Snowden, E. N., 4496
 Snyder, W. U., 1141, 2256, 2668, 3103
 Snyder, D., 4352(a)
 Socoloff, E., 2560
 Soeiro, L. N., 152
 Sodin, R., 868(a)
 Sokoloff, B., 1859
 Soland, E. J., 254
 Solandi, D. V., 2131(a)
 Soley, M. H., 3483
 Solomon, A. P., 3111
 Solomon, H. C., 3028, 3524
 Solomon, M., 2297
 Solomon, R. L., 4351(a)
 Soloway, E., 1396
 Somerville, W., 1834
 Sonnemann, H., 2877
 Sontag, L. W., 953, 1339
 Soper, E. D., 4059
 Soper, R. L., 3016
 Sorokin, F. A., 4050
 Sorsby, A., 55
 Souell, M. L., 1847
 Souques, M. A., 671
 Spar, H. J., 293
 Sparks, C. P., 4117, 4523(a)
 Sparling, M. E., 2048
 Sparrow, R., 1798
 Spaulding, F., 491
 Speer, G. S., 416, 1298, 4612(a)
 Spelt, D. K., 3413
 Spence, K. W., 1044, 1429, 1835, 1836, 4387
 Spence, R. H., 3624
 Spencer, D. E., 46, 356
 Spencer, R. F., 549
 Sperisen, W., 3719
 Sperling, A. R., 3112
 Sperry, R. W., 1837, 2102
 Spicer, E. H., 440
 Spiegel, E. A., 701, 794, 1838
 Spiegel, H., 1877
 Spiegel, J. P., 795
 Spiers, A., 2163
 Spitzer, J., 4084
 Spitz, K., 1703(a)
 Spitz, R. A., 954
 Spitzer, H. F., 1259
 Spornberg, H., 2352
 Sprenck, H., 2801
 Springbett, B. M., 702(a)
 Springthorpe, G., 4424
 Spross, A. J., 3469
 Staats, L. C., 1939
 Staff, Child Study Association of America, 2809
 Staff, Personnel Research Section, Personnel Research and Procedures Branch, Adjutant General's Office, 3777
 Staff of the Psychological Research Project (Bombardier), 1618
 Stafford, B. F. R., 4442
 Stafford, J. W., 4394(a), 4395
 Stagner, K., 869, 1583, 2353, 2354
 Stainbrook, E., 492
 Stalnaker, J. M., 2496
 Stalnaker, K. C., 2496
 Stanland, M., 1340
 Stanley-Jones, D., 3158
 Stannard, A. F. B., 3291, 4344
 Stanton, T. F., 4648(a)
 Starch, D., 4632(a)
 Starr, A. S., 1142
 Starr, M., 2008
 Staskiewicz, B. A., 4642
 Stearns, A. W., 1465
 Stedman, G. E., 2440
 Steer, M. D., 4145
 Stehle, H., 3917
 Stein, H. L., 1241
 Stein, M. I., 2337, 4380(a)
 Steinberg, J. C., 3438
 Steinberg, M., 2760
 Steinberg, S., 848
 Steinmetz, H. C., 512
 Stekel, H., 3812
 Stellar, E., 4321(a)
 Stellner, H. A., 4118
 Sterba, E., 642
 Sterba, R., 1210
 Stern, E., 3561
 Stern, E. M., 2816
 Stern, E. S., 1143
 Stern, K., 1485
 Stern, M. M., 2103
 Steuerwald, R., 4130
 Stevens, E., 1144, 3588
 Stevens, H., 153
 Stevens, R. B., 3180
 Stevens, S. S., 2112, 2915, 4194, 4220
 Stevens, V. S., 913(a), 1299
 Stevens, W. L., 1727
 Stevenson, W. G., 723
 Stewart, D. S., 3064
 Stewart, E. D., 1663
 Stewart, F. A., 1711
 Stewart, F. E., 1302
 Stewart, H. J., 97
 Stewart, J. V., 1799
 Stewart, K., 127
 Stewart, K. K., 3625
 Stewart, N., 4396(a)
 Stiles, W. S., 56, 1416, 1800
 Stillman, B. W., 599
 Stimson, D., 1713
 Stocking, C., 4131
 Stocking, G. T., 3039
 Stoddard, K. B., 4281
 Stoffeis, M. J., 328
 Stokvis, B., 4322
 Stoller, A., 1466
 Stone, C. P., 399, 493, 712, 919, 1451, 2938, 3937, 4372
 Stone, G., 4194
 Stone, G. R., 417, 2939
 Stone, S., 1704
 Stone, S. A., 957
 Storlie, A., 1056
 Stouffer, G. A., 2421
 Stoughton, M. L., 1705
 Strang, J., 2009
 Strang, K., 3113
 Strang, R. M., 1664
 Stranaky, E., 4027
 Stratemeyer, F. B., 4169
 Straus, R., 1212
 Straus, W. L., Jr., 98
 Straus, A., 550, 1584
 Straus, E. W., 2886
 Straus, L., 227
 Strecker, E. A., 796, 1145, 3533, 4443
 Strich, A. J., 2139
 Stroch, M. M., 2031
 Stromberg, A. E., 3871
 Strömberg, E., 2563, 3548
 Strominger, J. L., 4231
 Strong, A., 3242
 Strong, E. K., Jr., 2475, 2537
 Strong, G. F., 3578
 Strongin, E. L., 123
 Strunk, M., 1213, 2368
 Stuart, C. E., 1170
 Stult, D. B., 1619, 4094
 Stump, N. F., 2140, 3256
 Sturdevant, C. O., 134
 Sturm, M., 329
 Suchman, E. A., 2717
 Sucek, R. F., 1495(a)
 Suelts, B. A., 1300
 Sugar, C., 4079
 Sullivan, C. M., 3918(a)
 Sullivan, E. T., 3778
 Sullivan, J. A., 1801
 Sullivan, W. F., 3598
 Sulzbach, W. M., 3080
 Sulzman, J. H., 3872
 Sumner, F. C., 819, 2399
 Summers, H. L., 3709
 Sunderman, L. F., 99
 Super, D. E., 255, 2793
 Sutermeister, H. M., 3792, 3978, 4205
 Sutherland, J., 1665, 3276(a)
 Swackhamer, G., 2436
 Swan, K. C., 2908
 Swanton, C., 3079
 Swift, J. H., 1802
 Swineford, F., 282, 3803
 Swofford, L., 2785
 Symonds, J. P., 3368
 Symonds, P. M., 1171, 2338, 3141, 3720, 4397(a)
 Sya, H., 2214
 Szent-Györgi, A., 4236
 Tabat, D., 2560
 Taft, J., 1341, 1974
 Tagliari, R., 920(a)
 Tahmisiian, T. N., 1054
 Tamulonis, V. M., 3648, 4519(a)
 Tancredi, F., 797
 Tappan, P. W., 2422, 2768
 Tarachow, S., 112
 Tarneaud, J., 2614
 Taubman, R. E., 2409
 Tavares, B. A., 2841
 Taves, E., 1068, 1069
 Taylor, C. C., 2711
 Taylor, C. L., 2441
 Taylor, C. W., 3988
 Taylor, D. W., 562, 2369, 4353(a)
 Taylor, E. A., Jr., 2476
 Taylor, E. K., 19, 2074
 Taylor, F. V., 2538, 3381, 4146, 4633(a)
 Taylor, J. L., 995, 2291
 Taylor, L. O., 1666
 Taylor, W. S., 2557, 2940, 4170
 Teeter, V. A., 1301
 Teeters, N. K., 1982
 Teicher, A., 995, 2291
 Teicher, J. D., 2994
 Teicher, M. I., 155
 Telford, C. W., 1055, 1056
 Teltscher, H. O., 3485
 Tempin, M. C., 4425(a)
 Tenen, C., 576, 3243, 4119
 Tenenbaum, S., 1585
 Terman, L. M., 875
 Terry, M. C., 4249
 Teska, P. T., 3539
 Tesnière, L., 4325
 Teuber, H. L., 1394
 Textor, R. T., 3407
 Thaler, M., 4448(a)
 Thaler, M. B., 1586(a)
 Thelander, H. E., 2615
 Thewlis, M. W., 1919
 Thiesen, J. W., 4426(a)
 Thimann, J., 156, 157
 Thom, D. A., 2049
 Thomas, D. E., 586
 Thomas, R. E., 2539
 Thompson, A. S., 2013
 Thompson, C. E., 870
 Thompson, C. W., 3498
 Thompson, E. T., 996
 Thompson, G. G., 713, 1559, 3511
 Thompson, G. N., 1146, 2223
 Thompson, L., 3181, 4516, 4545
 Thompson, L. J., 3362
 Thompson, L. M., 3277
 Thompson, M. M. G., 2410(a)
 Thompson, R., 1515
 Thompson, R. B., 2477
 Thompson, W. N., 2370
 Thoma, R. K., 2598
 Thomson, G. H., 1368, 1533, 2529
 Thomson, L. C., 2578, 3433
 Thorburn, M., 3323
 Thorndike, E. L., 418, 1587
 Thorndike, R. L., 3721, 4147
 Thorne, F. C., 1147, 2305, 3114, 3338
 Thorne, F. H., 494
 Thorne, H. A., 798
 Thornton, M. K., 4492
 Thornton, N., 799
 Thorpe, F. T., 3115
 Thorpe, L. P., 563, 3779
 Thorpe, W. H., 1839, 2840, 3405
 Thurstone, L. L., 17, 295, 2075, 2079, 2802, 2833, 4237
 Tibbitts, C., 4655
 Tibba, A. E., 551
 Tiebout, H. M., 158, 2306, 3626
 Tiegs, E. W., 3778, 3779
 Tiffin, J., 579, 1620, 1714, 1803, 2442, 3709
 Tigay, E. L., 57
 Tillotson, K. J., 3080
 Tilly, M., 3213
 Tilton, J. W., 3278
 Timbers, V., 955(a)
 Tinbergen, N., 2840, 3919
 Tindall, R. H., 3116
 Tinker, M. A., 386, 390, 703, 1667, 2791, 2957
 Titmuss, R. M., 2400
 Tobias, J. M., 2559
 Todd, J. E., 2909
 Todd, K. M., 4497
 Toeman, Z., 1148, 2086, 3627
 Tolman, E. C., 2168
 Tolman, R. S., 174
 Tomey, A. H. J. M., 29
 Tomlinson, C. G., 2736
 Tompkins, H. J., 3117
 Tompkins, M., 1214
 Tompkins, M. D., 2032
 Toops, H. A., 1215
 Torgerson, T. L., 4656
 Touchard, T., 470
 Tousey, R., 1026, 3422(a)
 Towle, C., 2353
 Townsend, A., 618, 2484, 2497, 3763
 Trabattoni, C., 1389
 Trabue, M. R., 4132
 Traflet, R. B., 3279(a)
 Train, G. J., 2669, 2769
 Trainham, G., 2050
 Tramer, M., 303, 956, 957, 958, 2450, 2817, 3206, 3324, 3512
 Traquair, H. M., 3065
 Trasoff, J., 2163
 Travers, R. M. W., 1302, 3292
 Travis, R. C., 2859, 4238(a), 4308(a)
 Traxler, A. E., 618, 2484, 2498
 Treldgold, R. F., 2215
 Treleaven, C. L., 4261
 Trent, S. E., 4282
 Trescott, P. H., 3669
 Tresselt, M. E., 1588, 3406
 Treudley, M. B., 2731
 Triggs, F. O., 4613(a)
 Trolle, C., 1473
 Trongone, J. A., 2794
 Trotter, A. H., 997
 Trow, W. C., 2478
 Trowbridge, L. S., 4614(a)
 Troyer, M. E., 619
 Truex, E. H., Jr., 800
 Tryon, R. C., 552
 Tsao, F., 18
 Tschirgi, R. D., 3920(a)
 Tucker, A. C., 3942
 Tuckman, J., 513, 914, 2479(a), 4615
 Tufts College, 3795, 3873, 3874, 3875, 3876, 3877, 3878, 3879, 3880, 3881, 3921, 3943
 Tulchin, S. H., 1383, 2356
 Tunturi, A. R., 1390, 3448
 Tuompo, A., 1589
 Turnbull, W. W., 3288
 Tusnig, L., 2463
 Tutthill, C. E., 2307
 Tuttle, A. D., 3925
 Tuttle, H. S., 714, 1216
 Twitchell-Allen, D., 4667(a)
 Tye, V. M., 2584
 Tyler, D. B., 2958, 3839(a), 3922(a), 3923(a)
 Tyler, F. T., 3244
 Tyler, L. E., 643
 Tyson, R., 2558
 Uhler, A., 915
 Ullman, M., 2795
 Ullmann, C. A., 3382
 Ulrich, C. F., 998
 Umberhine, E. M., 3280(a)
 Underhill, R. M., 1965
 Underwood, R., 2712
 Unna, P. J. H., 1840
 Uranga Ima, F., 4445
 Uribe Cullia, G., 3486, 3701, 4085
 Usdin, G. L., 3369
 U. S. Air Forces in Europe, Office of the Surgeon, 4148
 U. S. Civil Service Commission, 1621
 U. S. Civil Service Commission, Library, 1622
 U. S. Department of Justice, 3207
 U. S. Department of Labor, 2033
 U. S. Employment Service, 1668, 2443

- U. S. Military Academy, West Point, Department of Military Psychology and Leadership, 4603
- U. S. National Defense Research Committee, 159, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 287, 588, 647, 691, 693, 3882, 3883
- U. S. Veteran's Administration, Advisee and Guidance Service, 2369, 2480, 2481
- U. S. War Department, 495, 589, 590, 591, 629, 916
- U. S. War Department, Office of the Secretary, Civilian Personnel Division, 4604
- Usem, J., 841
- Valentine, P. F., 1303
- Van Amberg, R. J., 1516
- Van Boven, A., 238, 901, 1237
- Van Bruggen, J. A., 1669
- Vance, R. B., 999
- VanDeman, D. D., 1279
- Van de Wall, W., 1901
- Van den Akker, J. A., 2909
- van der Heijden, M., 2842
- Van der Velden, H. A., 1804
- Van Dusen, A. C., 4317(a)
- van Harrevel, A., 1761
- van Iersel, J. J., 3919
- Van Riper, C., 2216
- Van Saun, H. R., 4634(a)
- Van Wageningen, M. J., 2080, 2081
- Van Wageningen, W. J., 4028
- Vaughn, C. W., 4120
- Vaughn, E. W., 296, 297, 2482(a)
- Vergani, O., 1715
- Vergara, A. D., 1590, 1591(a)
- Vernier, H. W., 3648
- Vernisau, W. M., 1534
- Vernier, C. M., 4605(a)
- Vernon, F. E., 1670, 2010, 3245
- Vervynen, R. J., 917
- Verville, E., 100, 1417
- Vetter, G. B., 2357
- Viaud, G., 1029
- Vickery, F. E., 1592
- Vinates Lujan, C., 3293
- Viner, N., 160
- Violet-Conil, M., 3513
- Visiting Teachers Newark, N. J., Schools, 3125
- Viteles, M. S., 870, 2011, 2012, 2013, 4149, 4150, 4583
- Vogel, P. J., 2221
- Vogel, V. H., 3710
- Vogelsang, A. D., 1149
- Volland, A. L., 2686
- Voldby, H., 4649
- Volk, D., 3434
- Vollmer, H., 959
- von Frisch, K., 3457
- Von Grunbaum, G. E., 2332, 2448
- von Hartman, L., 3935
- Von Haden, H. L., 620
- Von Hagen, K. O., 2219
- von Hentig, H., 3702
- von Muralt, A., 4493
- Von Neumann, J., 3159
- Vordenberg, W., 890
- Voss, H. A., 253, 2834
- Votaw, D. F., 1304
- Vries, H. de, 1805
- Wade, M., 1430
- Wadsworth, M. L., 3514
- Waelder, E. M., 2737
- Wager, J., 1048
- Waggoner, R. W., 1671
- Wagner, M. W., 2687
- Wagner, P. S., 2995
- Wagner, T., 2014
- Wagner-Simon, T., 4206
- Waite, J. A., 1973
- Wakeley, R. E., 553
- Wald, A., 1358, 4217
- Wald, G., 2910
- Walker, C. F., 2996
- Walker, G. H., 2616
- Walker, J. P. S., 1031, 1806
- Walker, K. F., 4177
- Walker, R. L., 3765(a)
- Walker, R. Y., 1990, 4323(a)
- Wall, W. D., 1672, 4171
- Wallenstein, J. S., 3208
- Wallin, J. E. W., 921, 1673
- Walls, G. L., 1418
- Walsh, E. G., 4250, 4251
- Walsh, J. E., 3357
- Walsh, R., 4261
- Walsh, F. M. R., 3399
- Walter, E. J., 672
- Walter, W. G., 1762
- Wang, G. H., 2063
- Wanscher, J. H., 1841
- Wantman, M. J., 1989
- Wapner, S., 1824, 3944
- Ward, A. A., Jr., 101
- Ward, C. E., 4042
- Ward, L. B., 4121
- Warner, L., 4151
- Warner, N., 161
- Warner, W. L., 1975, 1987, 1988, 2411
- Warren, N. D., 419
- Warrick, M. J., 4635(a)
- Warters, J., 621
- Waters, E. N., 215, 2713
- Waters, R. H., 4354(a)
- Watkins, J. G., 1070, 2963, 4029
- Watson, C. W., 2224
- Watson, G., 1556
- Watson, G. B., 1593
- Watson, K. B., 622
- Watson, R. L., 175
- Watt, A. W., 2248
- Watts, A. F., 4427
- Watts, J. W., 2656, 3394
- Wax, M., 4135
- Weatherburn, C. E., 2835
- Weaver, P., 216
- Weaver, R. C., 3182
- Weaver, T. R., 3017
- Webb, W. B., 3636, 4355(a)
- Weber, A., 330
- Weber, C. O., 2064, 2169
- Wechsler, D., 1920, 2231, 2237, 3575
- Wei, F. C. M., 3183
- Weichert, J. A., 1000
- Weickhardt, G. D., 3066
- Weider, A., 871, 1920, 2231, 2237, 3575, 3637(a)
- Weigand, J. J., 2714
- Weil, A. A., 2532
- Weil, C. S., 2836
- Weinberg, J., 673
- Weinberg, M. H., 4468
- Weinland, J. D., 270, 724
- Weinstein, B., 357
- Weinstock, H. L., 175
- Weisman, L., 1271
- Weiss, J., 65
- Weiss, J., 30, 2104, 2185
- Weiss, S., 1242
- Weitz, J., 592
- Weiborn, E. L., 1305
- Welch, G., 239
- Welch, L., 1431, 2941, 3067, 3946
- Welker, E. L., 3358
- Wells, F. L., 102, 1535, 2942, 3126, 3147, 3487, 4398
- Welsch, E. E., 3127
- Welsh, G. S., 1122
- Weltfish, G., 554
- Weltman, N., 555
- Wendt, G. R., 3924, 3925
- Wenger, M. A., 358
- Wengraf, F., 2670
- Wenzl, A., 2530
- Werner, A. A., 3995
- Werner, H., 2519
- Wertham, F., 4086
- Wertheimer, E., 813
- Wesman, A. G., 298, 1682, 3294, 4095
- Wessel, R., 4011, 4030
- Wessell, N. Y., 4621(a)
- West, R., 2249
- Wetzel, N. C., 331
- Wever, E. G., 704, 2918
- Wexler, M., 4043
- Whatmore, G. B., 2170
- Wheatland, M., 4231
- Wheatley, L. A., 819
- Wheeler, R. H., 2065, 2383
- Whelen, M., 2217
- Whelpton, P. K., 3167
- Wherry, R. J., 19, 310, 1314, 1815, 4283(a)
- Whildin, O. A., 2671
- Whitaker, C. A., 496
- White, H. W., 4172
- White, J. G., 623
- White, M. H., 3908
- White, R. K., 4399(a)
- White, R. S., 3654
- White, V., 4173
- White, W. A., 2854
- Whitehead, G. O., 3184
- Whitehorn, J. C., 1076, 2982, 3563
- Whiteley, A. H., 1440
- Whitfield, R. D., 368
- Whitman, W., 3185
- Whitney, D. R., 3351
- Whitney, E. A., 1001, 3592
- Whittemore, I. C., 3383
- Whitten, R. H., 391
- Whittridge, D., 687
- Whyte, W. F., 1610, 1987, 1988, 2015, 2016
- Wickens, D. D., 420, 1816, 4356(a), 4393(a)
- Wiener, D. N., 3488, 4400(a), 4505(a)
- Wiener, F. M., 3449
- Wiercinski, F. J., 2593
- Wiggins, M. L., 3452
- Wight, F. S., 217
- Wikler, A., 2878
- Wilder, J., 1150, 3989
- Wille, I. S., 2308
- Wilkinson, D. H., 1839
- Will, O. A., Jr., 162, 4031
- Willerman, B., 2697
- Williams, A. C., Jr., 4606, 4636(a)
- Williams, C. L., 497
- Williams, D. M., 3186(a)
- Williams, E., 4518
- Williams, M., 2803
- Williams, R. J., 674, 1716, 2688
- Williams, S. B., 2796, 4122, 4637(a)
- Williamson, E. G., 2444
- Willson, E., 1865
- Wilson, A. J. P., 299
- Wilson, D. J., 872
- Wilson, D. P., 556
- Wilson, F. T., 300
- Wilson, J. T., 1619
- Wilson, W., 163
- Wilson, R. F., 580
- Wilson, W. H., 1002
- Wimberly, S. E., 311
- Winch, R. F., 2540
- Winder, C. L., 437, 712, 1451, 4501(a)
- Winder, C. V., 2141
- Winfield, M. C., 514
- Wing, S. G., 1432, 2586
- Winn, W. A., 2909
- Winn, R. B., 2066
- Winnicott, D. W., 3068
- Winslow, A., 2579
- Winthrop, H., 1536
- Wirt, S. E., 271, 3339
- Wise, C. M., 1187
- Wise, H. S., 1496
- Wishart, D. E. S., 3450
- Wisniam, J. A., 3018
- Witmer, H. L., 801, 846
- Witryol, S. L., 713
- Witschi, E., 104
- Witt, G., 4305(a)
- Wittels, F., 1736
- Wittman, W., 2828
- Wittman, P., 1384, 4454(a)
- Witty, P., 960, 1306, 2483
- Wofenden, R. C., 1594
- Wolf, A. L., 3979
- Wolf, E., 62, 3435
- Wolf, E. B., 515
- Wolf, K. M., 1703(a)
- Wolf, S., 2989
- Wolfe, W. C., 2914
- Wolff, H. G., 802, 1920, 2231, 2237, 3575, 3841(a), 4032
- Wolff, W., 1706, 2824
- Wolf-Heidegger, G., 2142
- Wolfe, D., 359, 675
- Wolfe, H., 4230
- Wolowitz, J., 1359, 4218
- Wollach, L., 3432(a)
- Wood, A. L., 4087
- Wood, B. D., 2484
- Wood, E. H., 2946
- Wood, K. S., 1497, 1498(a)
- Wood, W. F., 2445, 3704, 4541
- Woodbury, C. B., 2943
- Woodhall, B., 3544
- Woodruff, J. L., 1066
- Woods, A. C., 705
- Woods, R. H., 2143
- Woods, R. L., 2602
- Woods, W. A., 1595
- Woodward, L. E., 2218, 2436
- Woodworth, R. S., 2587, 4195
- Woody, T., 3340
- Woolf, M., 676
- Woolman, B. B., 3281(a)
- Woolsey, C. N., 2879, 3897(a)
- Worbois, G. M., 2797
- Wortis, H., 164
- Wortis, J., 3118
- Wortis, S. B., 146
- Wragge Morley, D., 1842
- Wrenn, C. G., 2309, 2430, 4133
- Wright, B. A., 1153
- Wright, C., 630
- Wright, D. G., 2997, 3069, 3646
- Wright, E. F., 849
- Wright, H. W., 725(a), 2855, 4362
- Wright, J. E., 4284
- Wright, K. W., 498
- Wright, W. D., 2578, 2580, 2581
- Wrightstone, J. W., 2485, 4668(a)
- Wulff, M., 2520
- Wyatt, F., 4581(a)
- Wyle, C. J., 1243, 3208
- Wylie, P., 2825
- Wylie, R. C., 2804
- Wyrsh, J., 4607
- Yacorsynski, G. K., 438
- Yager, J. L., 644
- Yabuda, J., 1860
- Yamaguchi, H. G., 3465
- Yang, M. C., 2384
- Yannet, H., 2672
- Yarborough, J. V., 2446
- Yates, D. H., 2067, 2270
- Yates, F., 3804
- Yavitz, J., 1537
- Yeakel, E. H., 1476
- Yee, J., 3821
- Yeomans, E. R., 1566
- York, G., 3395
- Yost, W. J., 3282
- Young, A., 1285
- Young, A. J., 2486(a)
- Young, H. M., 803(a)
- Young, J. Z., 28, 1763
- Young, L. R., 1217
- Young, M., 939
- Young Men's Christian Association, 1921
- Young, P. T., 1537, 2186, 2599, 3926
- Young, R., 3722
- Young, R. A., 801, 815
- Young, R. H., 3996
- Young, W. C., 3392
- Zahle, V., 3541
- Zander, A. F., 4051
- Zangwill, O. L., 165, 1902
- Zander, A., 3325
- Zaretakaya, P. B., 3884
- Zeigler, T. W., 1671
- Zeisel, H., 3805
- Zeiny, L. D., 2447
- Zeligs, M. A., 3579
- Zerfom, K. P., 301
- Zerkle, G. A., 4039
- Zerner, E. H., 1218
- Ziebarth, E. W., 2348
- Zigler, M. J., 2144
- Zilinsky, J. D., 1718, 1770
- Zimmerman, F. T., 2944, 3474
- Zipf, G. K., 218, 2358, 2715, 3685, 4556
- Zirkle, G. A., 71, 1683
- Zirkle, R. E., 2531
- Ziskind, E., 688
- Zimon, M. M., 1514
- Zubin, J., 499, 1219, 4401(a)
- Zuckerman, H. S., 3342
- Zuckerman, S. B., 1315
- Zulliger, H., 4088, 4657
- Zunini, G., 1346
- Zutt, J., 804
- Zwerling, I., 3534

SUBJECT INDEX

- Aberdeen chronograph, measurement errors, 1720
Ability (*see also* art, mental, motor, music, physical, etc., ability)
adult, inequalities of, 3723
age, test inter-correlations, invariability, 75
of child, and parent education, 1340
constructional, tests for, 3904
executive, 252, 566
general, inheritance of, 4368
Japanese-American high school seniors, 3177
knowledge application, 604
and promotion, Army enlisted personnel, 4101
of rural vs. urban children, 3765(a)
special, and achievement in high school, 911
measurement, review, 3285
subnormal, incidence, Kansas, 2469
Abnormal psychology, 792, 799
experimental, 2209
history, France 19th Century, 4223
textbook, 476, 968, 4442
Abnormality, personality testing, normality factor, 510
Abortion, depression and, 2644
psychological diagnosis and, 2685
Abreaction, psychodrama, 3111
Abstraction, perceptual, & art, 3209
Acceleration, motion, angular, in flight, & illusory perception of movement, 2881
tolerance to, & body orientation, 3911(a)
school, medical program, effects of, 3956(a)
Accident, aircraft, 856
aviation, personality factors, 2328
industrial, human factor, 2431
and machine design, 1608
Accident-proneness, aviation, 2002, 4627(a)
auto-driver, 1233
child, 2507
Accommodation, eye, bright vs. dim light, 2910
measuring unit, 2152
Acculturation, Japanese in Hawaii, 2379(a)
and naturation, 1552(a)
Navaho, 1192
Negro in Brazil, 1548(a)
orientals in U. S., 1955
Papago Indians, 1965
Pueblo Indians, San Ildefonso, 3185
Accuracy, card-sorting, vs. age and school grade, 2955
Ace (*see* American Council on Education)
Acetylcholine, electrical properties at phase boundaries, 3393
in muscle reactivity, 1817
in nerve action, 1005, 1745, 1751, 1759, 3827(a)
and sensory endings, 3834(a)
Achievement (*see also* College, High School, Reading)
academic prediction, 2452
of veterans, 2476
aspiration level, 812
effect of class size, 3266
engineering student, tests, 297
and interest, 2148
Japanese language, prediction, 2796
journalism, prediction of, 3261
lip-reading, 3760
mathematics, aptitude test, 897
measurement, 898, 2485
medical student, prediction, 2024
Navy schools, standardizing, 4158
physical education, college woman, 2464(a)
private school pupils, 2484
scholastic, of comic book readers, 3746
cerebral palsied, 3755
of delinquents, 4071
& economic status, 1554, 3257(a)
& home work, 873
& memory, 3938
rural vs. urban children, 3765(a)
& speech disorders, 3582
& spelling, 3763
technical training, 4103
test (*see also* special subject names, tests)
Navy training, Navy, 596
teacher-constructed, errors, 3747
Acoustics, enclosed spaces, 1789(a), 3442
impedance of ear, 3893
measures, in decibel, phon, 2136
Acquired characteristics, inheritance of, 1347
Action potential, and alertness, 4308(a), 4238(a)
arm, reaction time, visual stimulus, 433(a)
8th cranial nerve, review, 2917
forearm, reaction time, 2860(a)
hypothalamic, and afferent impulses, 2867
muscle, and auditory stimuli, 4298(a)
intestine, mechanical activity, 2857
in paralysis, 3542
problem solving, 2936
& speed of performance, 2859
stomach, 2175
nerve, 1743
& choline esterase, 2559
hypoglossus nucleus, 3837
in pain, 3843
synaptic, 1749
Activity, and aggression, in children, 2501
child, conflicting authority and, 2516(a)
continuing, after substitutes, 3453
and electric shock, rat, 437(a), 1451
lack, social factors, rat, 1577
and obesity, hypothalamic lesions, rat, 3451, 3452
and oestrus, rat, 4231
psychomotor, in mental patients, 1898
Actor, stage fright, 3917
Adaptability, mechanical, test, Purdue, 579
Adaptation, army ant, to dry season, 2956
level, in psychophysics, theory, 2570
to physical environment, kangaroo, 2954
Adaptometer, Della Casa, 2113
German, 4258
Middle East, 1002
Addiction (*see* Alcohol; Drug)
concept of, 763
Adjustment, adolescence, problems, 3409, 3514
child, age-level tests for, 3306
college women, war effect, 1579
concepts, in sociological research, 2698
of developing child, 3971
diagnosis, Rorschach, multiple choice, 1524
incomplete, and frustration, mice, 1931
marriage, prediction, test, 177
rating, subjective estimate, correlation, 513
and speech defect, 1486(a)
Adler, Alfred, individual psychology, 2203
Administrator, public interests, 2475
Adolescence, adjustment problems, 3490, 3514
affectivity, 636
appearance, 1932
attitude change, prestige, 4565
autonomous groups, 1205
character development, 1222
characteristics, study guide, 3322
delinquent, 847, 2764
and social environment, 1601
dependency & 2812
development, 2504
diaries, analysis, 2040
economics, postwar America, 638
exercise, physiological effects, 2814
factory workers, attitudes, 3243, 4119
feeble-minded, education, 1659(a)
friendship, 1559, 3511
neighborhood stability & 2388
guidance, 2049
and community care, 3127
interests, social problems, 1592
maturation, motor performance, 429(a)
mental disorders, 1870
opinions, vs. adult, 3492
parent control, emancipation, 946
personality development, Negro, 1158
physical vs. science talent traits, 4646(a)
physiological measures, 2815
preference for counselors, 1509(a)
problem behavior, therapy with parents, 951, 1917
treatment, 924(a)
problems, India, 3968
revealed in letters, girl, 3123
psychology, knowledge, application, 604
textbook, 7
psychotherapy, 317
psychotic episode shock treatment, case, 3033
recreation interests, 955(a)
rural, social psychology of, 1589
social adjustment in, 1695
social relations, Finland, 824
strength in, 4412
vs. body build, 4411
training problems & personality types, 4419
urban, friendship of, 3511
voice changes, 2506
Adrenalin, and conditioned response, restoration, 2592
on striated muscle, 3819(a)
Adult, -child relations, in camp leadership, 3314
counseling methods, 1921
education, 1288
films used in, 1670
Y.M.C.A., 2739
Intelligence testing, 1315
learning, auditory presentation, 2153(a)
maladjustment, causes, 1856
projective technique, World Test, 2317
radio listener, 1544(a)
reading interests, 2032
vs. adolescent opinion, 3492
Advertising, attitudes & buying habits, 3734(a)
Buyometer, 4632(a)
color in, value, 4151
effectiveness of, 4624
radio, 2407
attitudes toward, 1194
results, measuring, method, 4632(a)
typography, and reader interest, 3248
Aesthetics, bibliography, 2702
creative ability in, 4092
music, psychology, bibliography, 215
perceptual abstraction and, 3209
poetry, psychological analysis, 3212
preference, artistic criteria, correlation, 210
psychology of, 2346, 2823
theory, 1562
Affect, judgment modification, 2161
purposive values, 4203
thinking, symbol, concept, 63
value of words, and PGR, 4304(a)
Affectability test and extra-sensory perception, 1170
Affectivity, in child, measure, 3963
childhood, adolescence, 636
in murder, 1978
race, Oriental stoicism, 206
Africa, East, race relations, 3666
Afterimage, cold sense, 3401
rotational, secondary, 4286
Age (*see also* Old age)
ability, test intercorrelations, invariability, 75
antipathy, correlation, 178
attitude, social, 524(a)
of castration, and mating behavior, rat, 72
creativity, 405
crime, 221, 560
differences, perception, incomplete pictures, 100
eye, changes, 73
health and, 1566
hearing, acuity, child, 50
defect, pilot, 2120
leadership, 532(a), 1563
manic-depressive psychosis, prognosis, 2623
maturation, motor performance, 429(a)
and psychosexual function, woman, 2173
regression, hypnosis, mental age, 448(a)
sleep, length, depth, 79
test score, adult worker, 901
Aggression, activity and, in children, 2501
child, 315
management of, 4420
toward father, 4422
game, 2341
leucotomy & 131
social, measuring, role playing, 4393(a)
types of, theory, 4294
Agnosia, brain, localization, 26
Agricultural education, evaluation in, 1267

- Airblast concussion, cerebral, syndrome, 2621**
Aircraft (see also Aviation)
 accidents, effect on personnel, 856
 artificial horizon, interpretation, 4630(a)
 canopy, effects on depth perception, 4618
 centripetal force and bodily movement, 2946
 communication equipment, 4145
 controls, proprioceptive discrimination, 4625(a)
 position, shape, color, 592(a)
 crew, proficiency measure, 4121
 work-place layout, 4634(a)
 design, for pilot comfort, 3254
 psychology, 1608
 equipment, design, psychology of, 4138
 foot vs. hand controls, 4626(a)
 glass, effects on depth perception, 4278
 gunights, psychology &, 4137
 indicator controls, 4635(a)
 instruments, psychology of, 4141
 landing, visual perception in, 3253
 manual corrective responses, 4633(a)
 meter scales, reading errors, 4620(a)
 noise, & deafness, 2916
 effect on personnel, 851
 reduction in, 3255
 panels, & vision, 4617
 transparent areas, visual effects, 4619
Air Forces, Air University, evaluation of instruction, 4648(a)
 aviation psychology program, 3708, 3716, 3721
 classification test, 893
 military psychology, personnel, post-war, 4100
 psychiatry in, 2987
 psychological research in, 1618
 Qualifying Examination, 3711
 School of Aviation Medicine, research, 3531
 test methods, 3721
Airsickness, see Motion sickness
Alauda arvensis, 3935
Alarm, susceptibility, pigs, 1821
Albinism, Negro, personality in, 1517
Albuminuria, psychogenic, combat, 2236
Alcohol
 addiction (see Alcoholism)
 metabolism, and electroshock, 3821
 motor performance, effects, 1053
 rejection threshold, blowfly, 1772
 vaso-response from, 3391
Alcoholism, 2304
 attitude, ethnic groups, 525(a), 4529(a)
 cases, Bowman-Jellinek classification, 3553
 cause, 2306, 2688
 social factors, 3556
 clinical analysis, 2293
 compulsion, cases, 164
 and criminality, problems, 2765
 dipsomania, etiology, 122
 drinker, characteristics, 2975, 2976, 2977, 2978
 drinking, results of, review, 2985
 hang-over, 138
 heredity vs. environment, 3558
 of homeless men, 1212
 hypnotherapy, case, 4485
 imprisoned drinkers, analysis, 2749
 mental hygiene of, 3056
 motor performance, effect, 1053
 nature of, 3987
 personality study, 4438(a)
 phases, 2683
 psychiatric aspects, review, 2966
 psychoanalysis, 3054, 3055, 3056
 psychopathology, 1146
 psychosis, 2977
 psychotherapy, 158, 3626, 4466
 Rorschach responses, 4441(a)
 social problem, 3987
 theory, 1154
 treatment, 2306
 aversion, 1900
 conditioned reflex, 156
 trends, 157
Algebra, superior children, 3735
Allergy (see also Asthma)
 child-mother relation, 1136
 emotional basis, 3077
 group therapy, 455(a), 1077
 & psychiatric factors, child, 1089
 psychogenetic vs. organic, 3574
 psychosomatics, 1318
Alertness, and action potentials, 4238(a), 4308(a)
Allyl thioures, effect on learning, rat, 1833
Alpha rhythm, attention types, 22
 blocking time, 1742
 class demonstration, 3824(a)
Altitude, and dark adaptation, 1796
 decompression, gas bubbles, 1438, 1439, 1440
 sickness, scotoma, 391
 disease, brain potential, 363
 effects, research, AAF, 3531
 on vision, 2894
 intelligibility of speech sounds, 3443
 pain, and exercise, 2121
 and scotoma, 391, 1797
 and subjective states, 1448
 tolerance, pressure breathing, 2172
 work efficiency and, 3456
Altruism, theories, 725(a)
Amenorrhea, psychogenic, 1123, 2643
American Association on Mental Deficiency, history, 1001
American Board of Examiners in Professional Psychology, 660, 3376
American Council on Education Psychological Examination,
 score increase, college years, 2390
 subcore groups, vs. Rorschach responses, 3480
 vs. Otis Group Intelligence Scale, 1677
American Epilepsy League, 1111
American Psychological Association, 2089
Committee on Graduate & Professional Training, 3359, 3380
 Executive Secretary, report, 675
 Military Division, 4140
 officers, editors, committees, 646
 personnel placement report, 1946, 3378
 Policy & Planning Board, 3376
 proceedings, 1946, 660
American Psychopathological Association, 2843
Americans, Jung's types in, 4379
Ametropia, nature of, clinical, 3427
Ammophila adrianae Wilcke, 3896
campestris Latr., 3896
Amnesia, analysis of, 2923
 in blast syndrome, 3045
 for childhood experience, 2934
 neurotic, case, 3066
 personality dynamics, case, 3062
 self-analysis, case, 4329
 test performance, case, 3062
Amoeba, movement, theory, 2589
Amphetamine, and social behavior, in mice, 4044
Amputation, adjustment to, 3482
 phantom limb, sensations, 3566
Analysis (statistics), sequential, 4217
 estimating parameter, 3343
Anatomy, neural, history, 4244
Andersen, Hans, Thumbelina, 3703
Anesthesia, and cerebral metabolism, dog, 3395
 hypnosis as, history, 1458
 in psychiatry, 2299
 in study of mental phenomena, 2600
Anger, neonate, 328
Angier, Roswell Park, obituary, 2551
Angioscotoma (see Scotoma)
Angle, visual estimation, 4275(a)
Animal (see also names of animal forms)
 behavior, abnormal, 3525, 3975
 dynamic, 4307
 journal, new, 2840
 mentalistic interpretation, 3783
 mimicry, deceptive value, 78
 drives, physiological basis, 4315
 emotion, 2599
 expectation, 418
 laboratory, house mouse as, 1349
 monkey cage, 3793
 neurosis (see Neurosis, experimental)
 psychology, anecdotal, 4191
 objective vs. subjective theory, 3783
 rat, review, 2056
 societies, vs. human, 4512
 space-time systems, 1441
 spinal (see Spinal animal)
 spirits, theory of, Descartes, 671
 training, and imagery, 2924
Animism, interpretation in psychology, 3332
Anisakonia, and neuroticism, 750
 successful correction, characteristics, 3407
Anorexia, in children, causes and treatment, 4404
Anosognosia, case, 1855
Anoxemia, nerve excitation, electric shock, 366
Anoxia, card sorting, 103
 consciousness, glucose effect, 1054
 duration of, 1281
 dark adaptation, 1796
 EEG, 1475(a), 1477(a)
 efficiency under, 1831
 and muscle fatigue, 2595
 and scotoma, 1797
 and subjective states, 1448
 test, brightness discrimination, 4259
 military, 231
 treatment of depersonalization syndrome, 3039
 vision, acuity, 3858
 defects, and glucose, 1786
 threshold, 1397, 3847(a)
Ant, army, adaptation to dry season, 2956
 colony behavior, 2956
 division of labor, 1842
Antennae, in mating behavior, wasp, 3905
Anthropoid, fear, 427
Anthropography, 3156
Anthropology, anthropography, new point of view, 3156
 bibliography, 536
 methods, cultural studies, 4055
 psychology and, 2051(a)
Anthropometry, children, Mexican, 4421
 factor analysis in, 4237, 4439
 methods, 1818
 psychotic patients, 1472
Antipathy, age, correlation, 178
 and phobia, 1173
 sympathy, 179
Anti-semitism, causes, 1953
 dynamics, Jew vs. Gentile, 3163
 of Hitler, psychoanalysis, 2195
 and intermarriage, 4058
 and mass psychology, 1963
 measurement, attitude effects on, 3161
 motivations for, 4533(a)
 and paternalism, 1952
 and personality, 1927
 polls, validity, 4527(a)
 and propaganda, 1949
 psychoanalysis, Oedipus complex, 2377
 psychoanalytic theory, 1954, 1958, 1964
 psychology, 1962
 theory, 1960
Anton's syndrome, 2219
Anxiety, in aviators, 3069
 basis of, 3903
 in blind child, 3300
 child, psychology of, 2630
 combat airmen, and adjustment, 3646
 conditioning of PGR in, 3067
 effect on conditioning, 2941
 and fear, 719
 clinical aspects, 1078
 indicators, Wechsler-Bellevue Scale, 1122
 management, in prison, 2662
 military, combat fatigue, psychoneurosis, symptom analysis, 154
 nasal psychosomatic syndromes, 485
 prisoner, behavior types, 508
 neurasthenic, test, 1516
 physiological response, and pain, 4311(a)
 in pilots, treatment, 2965
 psychosomatic indications, combat troops, 3571
 and psychosomatics, 1099
 psychotherapy of, 3560
 and response fixation, rat, 4300(a)
 at separation from Services, 3042
 as social control, 3638
Ape, and evolution, 1047
Aphasia, brain localization, 26
 classification, diagnostic, 3131
 differential diagnosis, child, 1443
 evaluation, psychological, 4000
 Gerstmann syndrome, 3019
 mental testing, retraining, U. S. Army, 495
 neuro-psychology, monkey, 357(a)
 phonetic analysis, 1488(a)
 post-meningitis, 1489
 retraining, Army, 495
 guide, 3131
 sensory, sound production, 1487
 terminology, techniques, 1495(a)

- Aphonia, 2242
Apparatus, Aberdeen chronograph, 1720
 adaptoneter, Della Casa, 2113
 German, 4258
 Middle East, 1002
 arithmetic teaching, 4159
 audibility threshold, 650
 audiometry, 699
 auditory signals, aviation, 37
 choice, blockwriting, 6
 chromatic aberration of eye, 4255
 cold stimulator, 3401
 colorimeter, monochromatic, 2909
 dark adaptation, 2571
 ear impedance measurement, 3893
 electric scoring machine, 10
 electrode, clip-on, EEG, 2875
 coordinator, EEG, 2532
 encephalophones, EEG, 2533
 flexible, EEG, 2874
 non-polarizing, 2175
 feeder, mice, 990
 finger tremor, measurement, 424(a)
 galvanic reflex, measurement, 2071
 graph model, 3-dimensional, 2829
 Hankes Test Scoring Machine, 2537
 inter-eyepiece distance, measurement, 3875
 International Business Machine, 989
 Keystroke system, scoring, 509
 kymograph, convertible, 3794
 record copying, 2826
 Mashburn, serial reaction, 1830, 1832
 microphone, throat, 3337
 odor standards, 2111
 olfactory stimulator, 3400
 pain threshold, 1347
 phase analyzer, EEG, 2877
 pupillometer, infra-red, 3422(a)
 radium plaque, night vision test, 4260
 reaction test, military, 584
 recording, 2828
 sound source, 2073
 syngmograph, 962
 stereo-acuity, 4265
 stereo-episcopes, 3
 stereopsis test, 3339
 stereoscopic trainer, 3795
 synoptophore, 1028
 telescope, optical data, 1765
 vibration sense, measurement, 1718
 visual acuity measures, 3872
 measuring, comparisons, 4283(a)
 training, 3412
Appearance, deformity, and social adjustment, 2707
 in judgment of nationality, 1565
 and personality, girls, 1932
Application blank, in employee selection, 3717
Applied psychology, everyday living, 2819
 Germany, World War II, 4612
 journal, new, 2842
 professional ethics, 2097
 textbook, 11, 654
Applied Psychology Panel, NDRC, history of, 1731
Apraxia, brain, localization, 26
Aptitude, 2455
 academic, measurement, research needed, 2485
 predictor for college success, 1631
 private schools, 2497
 aircraft pilot, tests for, 4587
 clerical, test, 3766
 college, prediction, 2452
 test program, Missouri, 3260
 journalism, test for, 3287
 measurement, review, 3285
 practical, in school failure, case, 2806, 2807, 2808
 profile, Roeder, 4666(a)
 scholastic, reading score, college freshman, 283, 289
 technical, measuring, 2020
 test, engineering students, 297
 factorial composition, 4211(a)
 high school student, 1283
 mathematics, Iowa, 897
 Navy, validity, 230
 principles, 2788
 types, 2455
 vocational, measurement, research needed, 2483
 vocational counseling, 913(a)
Argentina, school children, intelligence distribution, 3750
Argument, climax vs. anticlimax order, 2352
Aristotle, sense perception theory, 387
Arithmetic, achievement, and individual instruction, 3278
 and speech disorders, 3582
 percentage difficulties, college freshmen, 892
 readiness, test for, 3771
 teaching, research needed, 2453
 teaching method, slow pupils, 3271
 with objects, 4159
Armenians, in U. S., social participation, 2731
Army, chaplain, counseling by, 4109
 and mental hygiene, 2289
 clinical psychology, 1740
 post-war, 4041
 and psychiatry, 2291, 3815, 4035
 feeble-minded, in adjustment of, 3017
 hospitalization, NP patients, values, 3098
 leadership, tests for, 3150
 maladjustment, and discharge, 2207
 and marihuana, 504, 2322
 mental hygiene program, 1908
 Mental Hygiene Unit, function of, 3635
 Negroes, mental disorders in isolated units, 2989
 race discrimination, 3180
 white relations, 2374
 neuropsychiatric team in, 2292
 offenders, prediction, biographical data, 4576
 officer-enlisted man relationship, 2394
 officers, mental disorders, 2215
 selection, tests used, values, 4107
 Great Britain, 3224
 Personnel Consultation Service, 2969
 personnel program, post-war, 4112
 promotion, enlisted, and abilities, 4101
 psychological warfare, evaluation, 4064
 organization for, 4065
 psychology in, 2556, 2558
 Rehabilitation Center, prisoner, 3700
 schizophrenia, electro-shock therapy, 2266
 selection and classification, methods, 2775
Army Activities Preference Blank, 4523(a)
Army Beta, Revised, vs. Wechsler-Bellevue, 1680
Army General Classification Test, 4174
 correlations with civilian tests, 4117
 critique, 2798
Arson, psychological examination, case, 4069
Art, ability and intelligence, 1628
 appreciation, methods of training, 3210
 child, 1706
 as communication method, 4580
 criticism, methods, 2703
 education, evaluation in, 1285
 expression, behavior problem, 4503
 in child, case, 3324
 psychoanalysis, woman, case, 2959
 in schizophrenic, post-leucotomy, 3038
 Goya, psychoanalysis, 217
 Leonardo da Vinci, 2549
 meaning in, 4089
 perceptual abstraction in, 3209
 perspective, 1935
 psychology, 2346
Arteriosclerosis, psychoses, vs. senile, 4451
Arthralgia, psychogenic, 2640
Arthritis, and personality, Rorschach, 1880
 psychogenesis, 3074
Arthur Performance Scale II, 4658
Artist, children, 2311
 creativity, measure, 3946
 test, 1431
 theory, 2585
 love experience, and temperament, 1901
 personality pattern of, 4392
 psychoanalytical theory, 1847
 successful, case studies, 2330
Aspiration level, 2169
 achievement, 312
 child, 2500(a)
 learning, 3965
 in learning, and reminiscence, 2931
 of neurotics, 1876
 realism & idealism, 2163
 relations to test performance, 3142
 Rotter Test, 3142
 validation of, 3135
Assessment method, personnel evaluation, 4110
Associates, criminal, 3686
Association, and cortical neurones, 2566
 free, masculinity-femininity index, 825
 test, motor, military, 389
 word, lists, evaluation, 536(a)
 reaction times, 3900
Association for the Advancement of Psychotherapy, 2082
Associations, social work, directory, 2085
Asthma, emotional factor, child, 1321
 psychogenesis, 133, 3071, 3079
Atmosphere, "boll," and vision, 3430
Atropine, in motion sickness, 1450
Attention, 2162
 span & reading, 1665
 test, Bourdon-Baumgarten, 303
 types, alpha rhythm, 22
Attitude
 adolescent, in factories, 4119
 anti-Semitic, and personality, 1927
 behavior effects, 1184
 bi-polar, analysis, 2357
 change, by prestige suggestion, 4565
 from camping, 3313
 by teaching, 3668
 child's & parent authority, 950
 collectivistic, 2709
 conditioning of, 1606
 conservative-progressive, college work, effect, 903
 consistency, index, 1536
 formation, religious education, 201
 of Hawaiian labor, changing, 4594
 homogeneity, and sociometry, 1209(a)
 change, 839
 influencing, in industry, by broadcasting, 3214
 intensity, measurement, 2717
 interracial (see Race relations)
 inventory, research, 1943-46, 3263
 measurement, methodology, 1179, 1181, 2720
 panel method, 3652
 scale analysis, 3649, 4052
 syllogistic reasoning, 831(a)
 modification, alleged facts & rumor, 2351
 cartoons, editorial, 2401(a)
 child, 1699
 by professional workers, 2646
 propaganda, 2402
 radio presentation, 2344
 national groups, college woman, 1941-45, 546(a)
 nationalistic, war effects, 1583
 optimism, religion, 544(a)
 psychology of, & ego-involvement, 3335
 pupil, parent, teacher, 555
 radical, genesis, 826
 research, government, 208
 journal, new, 2543
 role of, in adjustment, 2698
 scale, interpretation, criticism, 404(a)
 political-economic conservatism, 533(a)
 Primary Social, religionism, sociological validity, 191
 social, age, 524(a)
 and socioeconomic status, 1689
 opinion poll, 202
 study, learning, methodology, 530
 surveys, War Relocation Centers, 840
 theory, neuromuscular sequence, 715
Attitude toward, — of
 alcohol, — ethnic groups, 525(a), 4529(a)
 American occupation, — Japanese, 1189
 British War effort & Churchill, — college student & citizen, 195
 child behavior, — parents, 313
 children, cultural, 3663
 church, — negro, 1357(a)
 conscientious objectors, — Negro, white, 528(a)
 counseling, measurement of, 2283
 counselor, — college student, 1509(a)
 death, — child, 330
 psychoanalysis, 444
 disabling diseases, — patient, 3124
 discipline, — child, 1689
 epilepsy, — child patient, 2676
 father, — child, 3493
 illegitimacy, — Negro, 828(a)
 imprisonment, — convict, 219
 Japanese, in U. S., 1199
 job, — insurance agents, 2776
 minorities, — high school student, 3667
 name, — Negro college women, 189

- Nazi atrocities, — Germans, 198
 Negro, child's changing, 3186(a)
 parenthood, and social status, 523
 racial groups, — college student, change, 4541
 — Negro, 1951
 radio, 1194
 released offenders, — business men, 1243
 religion, — Jews, 4549
 — Negro, 3187
 school, — child, 3502, 3756
 stepmother, — child, 949(a), 2047
 teaching, 2482(a)
 vocations, 1549
 war, — American children, 3503
 Audibility, threshold, apparatus, 650
 Audience, laugh patterns, theater, 1540(a)
 radio, 2407
 measurement, 4628(a)
 religious broadcasts, 1575(a)
 variation, word meaning, Roosevelt speech, 1939(a)
 Audiogenic seizures, magnesium & rat, 4310
 mouse, genetic factors, 3023
 Audiometer, hearing loss, military use, 691
 office equipment, 3450
 Audiometry, apparatus, 699
 aviation personnel, 1801
 in diagnosis of deafness, 2919
 group test, pure tone, 3445
 methods, 1777, 3890
 office practice, 3450
 pre-school child, 1415(a)
 review, 2110
 multiple choice, 1406(a)
 noise, pitch, loudness, 695
 & speech intelligibility, 3887
 young children, 4288(a)
 Audio-visual aid, for mental hygiene, 2294
 Audition (*see* Hearing)
 Auditory stimulus, motor response, 4298(a)
 Augustine, St., on imagination, 3363
 Auratone film & psychotherapy, 1132
 Authority, antagonism to, young offender, 2746
 conflicting, effect on behavior, 2516
 in delinquency treatment, 843
 parent, behavior, attitude, child, 950
 Autobiography, and Thematic Apperception Test, 1156, 2318
 Autokinesis, illusion, suggestibility, 743
 Automatism, description and treatment, case, 3063
 Automobile driver, accident proneness, 1233
 crippled, examination, 5247(a)
 Iowa State College Laboratory, 2351
 license, examination, 3252
 dark adaptation test, 2113
 visual tests, 4590
 Autonomic, activity, & EEG, 20, 3829
 factors, heart rate & EEG, 3835(a)
 nervous system, 2101
 & cerebral cortex, 2619
 discharge with central stimulation, 2866
 pain, clinical aspects, 3031
 review & bibliography, 2871
 & vomiting, 2179
 somatic nervous systems, interrelations, 2100
 Autonomous group, library service to, 1214
 loyalty, conflict, 1205
 Autoscopia, 2883
 Autotopagnosia, case, 2223
 Aviation (*see also* Aircraft, Pilot, Personnel, aviation)
 accident, personnel effect, 856
 aptitude, measure, 1830
 color vi on, signal lights, 249
 tests, AAF, 389
 combat, fatigue, 1827
 flier, personality disturbance, 767
 anxiety, 3646
 post-, neuroses, 3555
 depth perception in, 1803
 eye movements in landing, 1803
 flying, use of kinesthetic cues, 3840
 gunnery training, Japan, 582
 hearing, auditory signals, 37
 instructor, training aids, 1999
 vocabulary, 1998
 learning, check flight performance, 3944
 curve, 402
 medical research, German, review, 4148
 Medicine, School of, AAF, research, 3531
 psychology, Air Forces, post-war program, 4100
 bibliography, 4150
 German, review, 4148
 navigators, AAF, 3708
 Navy, post-war program, 4106
 program, 1732
 textbook, 4150
 psychomotor tests, 419(a), 2461
 research, Japanese, 2182
 training, devices, Japan, 586
 in landing, 1992
 manuals, Navy, 4154
 methods, Japan, 239
 Avoidance behavior, electric shock, rat, 717
 Baiga, sexuality, 2382
 Balance, recumbent & fatigue, 3909(a)
 Balfour, Gerald William, obituary, 961
 Ballard Test, short form, Spanish (Peru), 3293
 Bantu, divination, as projective technique, 1574
 Barbiturates, & wakefulness, 3922(a)
 Bari, child naming among, 3184
 Basilar membrane activity, frequency, 3436
 Battle exhaustion (*see* Combat fatigue)
 Bee, communication of, 3457
 Beetle, dung, instinctive behavior, 4317
 Behavior (*see also* animal, child, criminal, sex, etc., behavior)
 abnormal, theory, 2992
 adaptive, physical analogue, 1707
 anti-social, causes, 3699
 attitudes, values, effect on, 1184
 avoidance, electric shock, rat, 717
 climate &, 2383
 continuing, effect of interpolated, 3453
 co-operation, psychological training, 537(a)
 cultural effects, 832
 in democratic vs. autocratic groups, 1538(a)
 detour, rat, 4350(a)
 dynamic-affective structure, 4307
 hereditary types, factor analysis, rat, 4319(a)
 individual, & political ideology, 4563(a)
 integration, education for, 1287
 integrative, 1174
 modification, experimental, 2209
 natural rhythms in, 2948
 & occupational fitness, 1242
 pattern, neurotic, rat, repetition &, 3912
 physiological psychology, 2063
 readjustment, motor, intellectual, child, 639
 sex differences, chimpanzee, 196
 starvation effects, manual, 85
 value situation, 1
 Behavior problem (*see also* Child, Problem types by name)
 camping &, 3087, 3101, 3110, 3295, 3298, 3317
 cultural factors, 2615
 education &, 3318, 4651
 EEG, 1863, 2996
 in epileptic child, 2675
 & excessive sleep, 2512
 personality factors in, 2277
 phylopathology, 2214
 teacher handling, 4152
 type, & play therapy, 2684
 Behaviorism, critique, 1344, 3331
 Behn Rorschach, vs. Rorschach, & Harrower, 4389(a)
 vs. Rorschach, of alcoholics, 4441(a)
 Belgium, vocational guidance, 1255
 Belief, alleged facts & rumors, 2351
 pseudopsychological, trends, 2096
 Bell Adjustment Inventory, college student scores, 3134(a)
 Bengal, mourning customs, 1570
 Bennett Mechanical Comprehension Test, norms, 4095
 Benton Visual Retention Test, 4659
 Beta Examination, revised norms, 4095
 Benzedrine, effect on fatigue, 1834, 3454
 motor performance, 2594
 & motion sickness, 3924
 & wakefulness, 3922(a)
 Berber tribes (Africa), test performance, 3169
 Berkeley, Bishop, conceptualism, 1428
 Dr. Johnson &, 2853
 Bernreuter Personality Inventory, score analysis, 1532
 scoring method, 2695
 Biarritz American University, counseling program, 2460
 Bias, opinion polls, antilabor, 2365
 Bibliographies,
 absolute pitch, 3444
 accident proneness, 1233, 2002
 adolescents, 7
 social psychology, 1589
 aesthetics, 1562, 2346, 2702
 altitude tolerance, 2172
 anthropology, 536
 anti-social behavior, 3699
 anxiety, child, 2630
 appearance and personality, 1932
 Applied Psychology Panel, 1731
 aptitude measurement, 3285
 art, training & ability measurement, 3210
 attitude inventories, 3263
 autonomic nervous system, 2871
 aviation psychology, 4150
 bioelectric potential, neuro-muscular, 2870
 blind, periodicals for, 1785
 brain, somatic functions, 2879
 brain weight, 2863
 burial customs, 4543
 child, 1706
 care, 2508
 & curriculum, 939
 development, 3494
 psychiatry, 2980
 psychoanalysis, 1846
 psychology, 2505, 2513
 study, 3959
 cinema, Germany, 2375
 clinical neurology, Russian, 3021
 clinical psychology, 148, 1914
 training, 1378
 college achievement prediction, 3742
 color, in literature, 2907
 vision, 36, 2128
 convulsive behavior, rat, 3386
 criminals, physical characteristics, 3198
 crippled child, 321, 1896
 cutaneous sensibility, 2885
 delinquency, 844
 court, 2422
 repentance, remorse, 2748
 dilettantism, 2823
 disability & social psychology, 1153
 doctoral dissertations, 1945-46, 997
 ear, electric phenomena, 2917
 education, Indiana, 2380
 of deaf, 3889
 psychology, 1946, 4168
 EEG, 685, 1748, 2869, 2873
 epilepsy, 3027
 ethnology, Brazilian Indians, 3175
 executive ability, 566
 experimental neurosis, 3053
 psychology, 966
 family relations, 2393, 3670
 fear, 427
 finger painting, 1166
 foster care, 3507
 Gerstmann syndrome, 3019
 group psychotherapy, 2267
 delinquents, 2652
 guidance, 564, 605, 895
 Canada, 1660
 college student, 875
 hand dominance, 1434
 hearing, equilibrium, 701
 history, methods, 3340
 illumination, 390
 industrial, film catalogs, 1668
 personnel selection, 3222
 psychiatry, 3217
 psychology, 2771
 relations, 2423, 2435
 testing, 2780
 training, 1361
 industry, woman in, 1224
 intelligence tests, 306, 3288
 interest inventories, 3263
 inter-group marriage, 3188
 Iowa State College Driving Research Laboratory, 3251
 Johnson, Alexander Bryan, 2927
 journals, for blind, 1785
 directory of, 998
 penology, 1982
 social work, 2085
 language, 2340
 & mental development, 4427

- leadership, 1936
learning, 403
manic-depressive psychosis, 2623
marriage, 1966, 2393
medicolegal, 3203
mental disorder, heredity, 1464, 2979
physical pathology, 2982
tests, 1310
trait variability, 1810
motion, and time studies, 2433
sickness, 3534
movement, amoeboid, 2589
muscle physiology, 2858
music education, 2714
in industry, 1604
psychology, 215, 2713
therapy, 1091, 1895
Negro problem, 3658
psychology, 2372
nerve, action, acetylcholine, 1751, 1759
cholinesterase, 1744
synapse, 1749
-muscle, specificity, 98
electric phenomena, 2870
transmission, 2862
nervous system, 681, 682, 683, 686
neurology, 1944-45, 794
neurosyphilis, 3028
noise measurement, 1781
nystagmus, 438
obesity, psychosomatic, 3078
occupational descriptions, 3226
old age, 1919
ophthalmology, abstract journal, 2839
organism, development, 1819
Papago Indians, 1965
penology, journals, 1982
performance tests, 2487
personality, & disease
measurement, 501, 3133
questionnaire, 3139
test, 502
& vocation, 1929
personnel, administration, 1622
high school, 621
military, classification, 2775
philosophy, early American, 992
physiological psychology, 2063
pilot, research on, 1940-1944, 2011
Porteus Maze Test, 2495
primitive mentality, 2381
projective techniques, 2338, 3141
Rorschach Test, 809
psychiatric social work, 3106
psychiatry, 1124
1944-45, 794
1946, 2983
concepts, 1465
psychoanalysis, child, 1846
psychology, 964
abnormal, 476
American texts, early, 992
1934-44, 1728
elementary, 4195
in France, review, 1945-46, 2542
publications, 1936-47, 3368
psychometrics, clinical, 3126
psychopathology, 2204
psychosomatics, invalidism, 1888
physically handicapped, 1153, 1508
public opinion research, 3643
race prejudice, 1585, 1950
psychology, 2378
reading, adult, 2032
difficulties, 614, 2030
investigations, 1945-46, 3258, 3744
materials, 1643
1940-44, 618
reality, mastery, 108
religion, 188
respiration, 436
Rorschach Research Exchange, 1937-46, 2689
Sachs, Hanna, 2846
schizophrenia, 1935-45, 1865
selection methods, industrial personnel, 3222
semantics, 2342
sex behavior, primates, 3458
sex differences, 1494
shock therapy, 3108, 3118
size constancy, 3423
social acceptance, school child, 3647
conflicts, 1961
organization, 1207
socioeconomic status, 829
special ability measurement, 3285
speech, 1187
speech defects, 1117, 2216
statistics, 1946, 3803
factor analysis, 2529
methodology, 1945-46, 3798
test construction, 3292
stuttering, 1494
teacher selection, 2031
test construction statistics, 3292
thought, 2159
transfer of training, 1650
value, measurement, 1550
vision, 689, 2568
visual nervous system, 1794
vocational guidance, 2033, 4133
war neurosis, 795, 1877
work, physiology, 3820
Bibliography
citation form, social science, 1360
classification, psychology, 2541
child development, 2837
formation of, Keysort, 3807
style manual, 1360
Bibliotherapy, 1072
for juvenile delinquents, 4019
Big Brother, in therapy, 933(a)
Bigotry, answering, training in, 4560(a)
Bilingualism, speech development, 3505
Binaural vs. monaural thresholds, 3446
Binet Test, correlations vs. Porteus and Good-enough, 4370
Bing-Kretschmer, theory, mental disorders, 3978
Biochemistry, in mental disorders, review, 2982
of muscle action, 1817
visual reception, 3416
Bioelectric phenomena (see Electrical phenomena)
Biographical case history, 4576(a)
Biography, predicting Army offenses, 4576(a)
value analysis, personality study, 4399(a)
Biography & criticism (see also Obituaries, Portraits)
Augustine, St., 3363
Berkeley, Bishop, 1428, 2853
Brentano, F., 967
Brown-Séquard, C.-E., 3811
Burnham, W. H., 1367
Dumas, G., 355
Eder, D., 2192
Erigena, Johannes Scotus, 3364
Freud, S., 342, 440, 2052, 3369
Hall, G. S., 1367
Holt, E. B., 351
Hume, David, 1735
Johnson, Alexander Bryan, 2927
Johnson, Wendell, 2553
Jones, E., 664
Jung, C. G., 2091, 3673
Karpman, B., 3974
Kaysmeier, B., 3974
Kitson, H. D., 13
Klein, Melanie, 2187
Leonardo da Vinci, 2549
Lewin, K., 3360
Lotze, Rudolf Hermann, 2550
Marc-Wogau, K., 2567, 2852
Myers, C. S., 1730
Peirce, G. W., 1423
Pestalozzi, J. H., 1733
Rush, Benjamin, 1736
Sachs, Hanna, 2844
Shakespeare, 1057
Sheldon, H. D., 1367
Soemmering, S. T., 3367
Spearman, C. E., 4369
Stekel, Wilhelm, 3812
Szondi, L., 4206
Weiminger, O., 2090
Witmer, Lightner, 2545
Woodworth, R. S., 3790
Biology, cell growth, 2104
concepts in, particle, field, 2528
field theory in, 2522
particle physics approach to, 2531
theory, physical vs. physical, 1708
Biophysics, concepts, 2531
Biopsychology, of social organization, 1207
Biotechnology, 2441
Bird, behavior, object recognition, mimicry, 78
chicken, learning, heredity, 400
colonization, inter-island, 2951
homing behavior, theory, 1839
nesting, blackbird, 722
problem solving, 3935
species evolution, 2951
starling, deferent duct, hormone, 104
use in language study, 4324(a)
Birth, month, problem child, 958
rate, & college graduates, 192
& cultural change, 2400
& social groups, 2386
season, & IQ, 4645
trauma, psychoanalytic, 1845
Blarina brevicauda, smell sense, 4248
Blast syndrome, characteristics, 3045
Blindness, adjustment, occupational, social, 467
Braille, hand movement, 279
Multiphasic Inventory, edition, 2690
child, deaf, training, case, 275
clinical psychological services, Michigan, 3633
congenital, 55
& mental growth, case, 1692
counseling, nondirective, 285
denial of, 2219
education, 603
India, 4161
research, 3754
vs. partially seeing, 3752
fear and anxiety in, 3300
hysterical, case, 3060
military, 494
periodicals for, 1785
psychology, 2125, 4161
rehabilitation, 293, 1118
school grade, pupil population, 603
social aspects, 2115
visual learning following, 4348(a)
vocational guidance, 276
vocational rehabilitation, job-sampling methods, 293
Blinking, frequency, readability, print, 703
rate, & reading, 3408, 3425
& visual efficiency, 1396
Block writing, choice, apparatus, 6
Blood, anoxemia, nerve excitation, electric shock, 366
chemical factors, & emotions, 1820
circulation, in schizophrenia, 1568
pressure, musician, 99
& stimulation cerebral cortex, 3836(a)
Blowfly, olfaction, threshold, 1772
Board interview, for officer evaluation, 4115
Body build, & mental disorders, 4439
& personality, 4439
& strength, 4411
Image, self, basis of, 2883
perception of, in enuretics, 2627
sway, & vision, 1046
non-visual conditions affecting, 3455
weight, & brain weight, 2863, 3398
Bolívar, Simón, character of, 3486
psychological study of, 3957
Bookkeeper, selection of, 4105
Boredom in repetitive work, 1240
Boring, E. G., portrait, 1369
Bose, sex theories, 3902
Botleys Park Mental Deficiency Colony, history, World War II, 3010
Boy, casework, 815
Chinese guidance clinic, case, 1323
delinquent, case, 2418
fetishism, case, 2205
maladjustment, etiology, 2275(a)
practical aptitude, case, 2806, 2807, 2808
psychosis, episodic, case, 2625
sociality of, 1558
vocational aims & adjustment, 1265
voice changes, 2506
Boy Scouts, leadership criteria, 4517(a)
Brain (see also Cortex, Hypothalamus, Lobotomy, Electroencephalography)
acoustic areas, 1390
central control, 1746
changes, after shock therapy, review, 1004
concussion, after airblast, psychological factors, 2621
damage (see Brain lesion)
dominance, 1434

- electrical activity, mental activity & insomnia, 3839(a)
emotion, function in, 677(a), 4239(a)
enzyme distribution, & mental function, 2617
hearing, 371
localization, 2561, 3399
 agnosia, apraxia, aphasia, 26
 conscious center, 360
 excitation & 21
 movement, 1387
 righting activity, cat, 92
 sleep, 1435
nerve cell organization in, 2872
physiology, 24
potential, altitude disease, 363
respiration center, 436
somatic functions, review & bibliography, 2879
thalamo-cortical correspondence, 3394
waves, in narcolepsy, 788
weight & body weight, 2863, 3398
- Brain lesion (see also Lobotomy)**
airblast concussion, syndrome, 2621
& conditioning, 3463, 3934(a)
consciousness, disturbance, 2563
cortex, forced rotation, dog, 4243(a)
& denied blindness, 2219
dog, 3929(a)
"dreamy state" as sign of, 3540
& flicker frequency, 4262(a)
& handedness, 2865(a)
& language, 1468(a)
memory, verbal, 165
Memory-for-Design Test in, 3022
nystagmus, habituation, pigeon, 438
& paranoid reaction, case, 2223
& perception, 1393
& personality, 1854
rehabilitation, psychological aspects, 1902
spatial disorientation, case, 146
subjective syndrome, case, 1851
tumor, mental disorder, 368
& visual hallucination, 2221
war injuries, EEG, 3544
Wechsler-Bellevue Scale, 307(a), 471, 1467(a)
- Brazil, Indian culture, 3175**
individual psychology in, 2092
Negro, acculturation, 1548(a)
- Breakdown, conflict & 4437**
Brentano, Franz, letters, 967
Brett, George Sidney, obituary, 982
Brief relationship therapy, military, 783
Brief stimulus therapy, 2660
Brightness, & acuity, 3419
& area, 4253(a)
color pyramid, Ilmen, 56
contrast, threshold, 1012
visibility, 2891
& dark adaptation, 1805
discrimination, & anoxia, 4259
 learning, electric shock in, 1815
 & visual acuity, 1022(a)
field of, illumination, threshold, 1026
judgment of, vs. physical measure, 3863
low, & color thresholds, 3866
perception, delayed, 1795
threshold, 1405
- Broadcasting (see Radio)**
in industry, & work efficiency, 3214
- Bromide, schizophrenia, 766**
Brown-Séquard, C.-E., biography, 3811
Bühler Infant Scale, Chinese infants, 1679
Building industry, interpersonal relations, 1239
Burial customs, psycho-analytic study, 4543
Burnett, Charles Theodore, obituary, 1366
Burnham, W. H., 1367
- Business, conference leadership, textbook, 1994**
education, women teachers, interest patterns, 1277
high school student, preparation, 1241
human relations, research, 2437
sales personnel, selection, 865
- Burometer, measuring advertising, 4623(a)**
- Cage, monkey, new design, 3793**
Calcium, effect on muscle protoplasm, 2503
California Test of Mental Maturity, 3778
Calorie intake & work output, 1235
Cambridge-Somerville Youth Study, 815, 846
Camp, children's adjustment to, 3320
 attitude change from, 3313
 and behavior problems, 3295, 3298
- emotional disturbances at, 3309
in guidance, 3110
leadership in, 3304, 3314
for maladjusted, 3317
mental hygiene aspects, 3295, 3307, 3310
and personality development, 3325
readiness for, 3319
therapeutic use, 3087, 3101, 3110
work, educational values, 3759
- Camphill Rudolf Steiner Schools, description, 4014**
Camptocormia, psychogenesis, 3576
Camus, Albert, novel, psychoanalytic interpretation, 3155
Canada, prejudice toward minority groups, 3659
 psychiatry in, 4433
 psychology in, 4179
 social credit movement, 4564
 vocations, social status, 4615
Canadian Journal of Psychology, 1729
Canadian Psychological Association, journal, 1729
 list of members, 1362
Canadian Social Science Research Council, psychology in, 3154
Cancellation, practice effect, 3932
Cannon, Walter, obituary, 652, 658
 portrait, 658
Cardall Test of Practical Judgment, validity, 2492
Card-sorting, accuracy & speed, vs. age & grade, 2955
Carus, F. A., dream theory, 1452
Case study method (see also Social case work)
 of foreign born, 1555
 history schedule, delinquency, 4036
 interpretation, 2361
 in teaching, 1649
Cases, adolescent, problems, 3127, 3514
 psychotic episodes, treatment, 3033
 schizophrenia, 3097
 amaurotic family idiocy, 3537
 amnesia, 3062, 3066, 4329
 anosognosia, 1855
 anxiety neurosis, therapy, 4485
 automatonism, treatment, 3063
 aphasia, 1489
 blindness, congenital, 1692
 denial of, 2219
 brain lesion, 2223
 visual hallucination, 2221
 cataplexy, 1462, 1862
 catatonia, 1084
 child, conflict situation, treatment, 4491(a)
 developmental history, 3962
 drawing development, 3324
 guidance, 1316, 1323
 psychosis, 1139, 2624, 2625, 3548
 clairvoyance, 1063
 color blind, hysteria, 2232
 counseling, unsuccessful, 2668
 couvade, 2603
 delusion, 1092
 delinquency, 1979, 2418
 dental lesion, psychogenic, 3568
 deuteranopia, 3432(a)
 diplacusia, 1787
 embezzler, psychopath, 4078
 feeble-minded, 489
 and isolation, 2208
 vs. psychosis, differential diagnosis, 3001
 Rorschach, 3538
 speech retardation, 3014
 fetishism, 2205
 head injury, subjective syndrome, 1861
 herpes simplex, 2247
 homosexuality, 1850, 2210
 hostile feeling, family, 3561
 hydrocephalus, 3539
 hypnosis, age-level regression, 2313
 hypogonadism, treatment, 4471(a)
 hysteria, 4465
 blindness, 3060
 color blindness, 2232
 convulsion plus epilepsy, 3557
 impotence, therapy, 4029
 infantile dementia (Heller), 1074
 jealousy, sibling, 3962
 letters, personality, 1152
 manic-depressive, electroshock therapy, 3599
- marriage counseling, 1968
masturbation fantasies, 1858
motor block, nondirective treatment, 3109
murderer, handwriting of, 3697
 psychopathic, 3203, 4085
music therapy, 2645
narcolepsy, 788, 1461, 1462
neck pain, 3996
neurosis, after head injury, 787
 compulsive, 1507
 defiance, 3984
 traumatic, 3559(a)
 war, 1877
obsession, treatment, by suggestion, 3086
visual image, 3989
paralysis, familial periodic, 2224
paranoia, 1130
paraphilia, 3986
paresis, test performance, 3025
personality, changes, following radiation
 menopause, 3143
 study, poet, 2319
 type, inarticulate, 4398
pertussis, psychic effect, 1329
phobia, treatment, 2680
practical aptitude, 2806, 2807, 2808
problem child, 1322, 2331
psychoanalysis, art expression, woman's, 2959
 patient's insight, 4484
psychodrama, vs. non-directive therapy, 3611
 negro schoolboy, 4269
psychopath, 1109, 2286, 3040, 3050, 3051
psychopathic, criminal, 3701
 malingerer, 3551
 murder, 3203
 rejected child, 2048
 respiratory incoordination, neurotic, 4462
Rorschach, diagnosis, 4082
 feeble-minded, 3538
 hypertension, 2641
sadism, masochism, 3986
 picture mutilation, 4463(a)
schizophrenia, adolescent, 3097
 child, 1139, 2624
 convulsive seizure, 785
 girl, 772, 773, 774
 lobotomy, 2254
 matricide, 3545
 military prisoner, 4086
 shock therapy, 2654
sex delinquency, 1976, 4011, 4012
skin disease, psychogenic, 2239, 2246
social recovery, 1120
speech pattern & neurosis, 1188
stuttering, 2608
suicide, child, 1687
therapy, electrophoresis, 4494
 hypnosis, 1070, 3597, 4029, 4485
 lobotomy, 2254
 psychoanalytic, 3088, 3594
 shock, 2654, 3599, 4017
 social, 4011
 thyroid, 945(a)
 twins, personality differences, 3564
 visual hallucination & brain lesion, 2221
Castration, age, mating behavior, hormone, rat, 72
 deferent duct, hormone, starling, 104
Cat, optic nerve, polarized retina, 41
 righting posture, centers, 92
Catalog Test, Tramer, 2450
Cataplexy, theory, cases, 1862
Catatonia, cosmic consciousness in, & American culture, 1084
 excitement, psychotherapy, 488
Categories (statistical), prediction, from measurements, 4212(a)
Category, concept of, 976
Catharsis, action, in psychodrama, 3595
Catholic Charities G.Dance Institute, New York, 1909
Catholicism, & psycho-analysis, 4062
 & student counseling, 902, 4038
 & social work, ethics, 1172
Cathode ray screens, illumination & visibility, 4637(a)
Causalgia, action currents in, 3843
Cebus monkeys, color blindness, 4274
Cell, growth, specificity, 2104
Cell (statistics), proportions & parameters, 4216
Centripetal force, & ability to move, 2946

- Cerebellum, vs. cortex, in control, neural functions, 1746
Cerebral palsy, case work with mothers, 2255
defective, test performance pattern, 3029
description of, 2220
education of, 3755
management, 2649
personality development, 3024
and speech disorders, 1335, 1493, 3543
training, 1324
Ceremonial reluctance, 1203
Certification, Connecticut, 1377
methods of, 3376
problems of, 2848
survey of laws, school psychologist, 1374
Virginia, 1381
Cervantes, contribution to psychiatry, 3526
Chapin, F. S., social status scale, 829, 1933
Chaplain, as counselor, 4:09
& mental hygiene, 2289
Character, evaluation, in delinquency, 2752
intelligence &, 2158(a)
study, Simón Bolívar, 3486
Characterology, social psychology, 672
Cheating, motivation &, 932
Chiroscope, in training, 4284
Chemical, reactions, nerve impulse, 686
senses, fish, 3404
wireworms, 3405
Chemicals (see Drugs)
Chemistry, achievement, high school vs. college, 3749
veteran vs. non-veteran, 4642
of cerebral cortex, 1758
of muscle contraction, 4236
odor, flavor, 384
Chemoreceptor, honesty, 690
Chicago Tests of Primary Mental abilities, 2497
Child (see also Adolescence, Boy, Camping, Girl, Infant)
adjustment, age-level tests, 3306
adopted, mental development, 4371(a)
affectivity, 636
age, & parent relations, 3296
aggression, 315, 2501, 4420
American, attitude toward war, 3503
art, 1706
aspiration level, 2500(a), 3965
attitude, & parent authority, 950
attitude toward discipline, 1689
father, 3493
poetry, 3350(a)
school, 3756
stepmother, 949(a), 2047
war, 3503
behavior, 316
in adult crowds, 3512
in motor, intellectual, readjustment, 639
parent attitude, 313
& parental authority, 950
& teacher personality, 2786
bilingual, speech development, 3505
book preference, 960
camp (see Camp)
concepts, democratic, 4409(a)
of God, 3964
wife, cultural factors, 2392
crippled,
adjustment, 321
education, 1896
intelligence appraisal, 3316
parent rejection, 2811
cultural attitude toward, 3663
dentistry, & psychology, 3969
diabetic, family attitude, 3565
discrimination, transfer & language development, 1037
education, Indians, 2380
emotion, adjustment, 1688
mourning, 330
ethical training, 4186, 4187
exceptional, incidence, Kansas, 2469
experiences, & adult maladjustment, 1856
eye disorders in, 4407
and family, bibliography, 3670
father fantasy, 314, 631(a)
feeling states, measure of, 3963
figure copying, dimension, 1336
shape, 1337
foster, placement, parent-child relationship, 935
foster home, attitudes, 3302
frustration tolerance, measuring, 4426(a)
generalization, development, 641(a)
handedness, 2945
parent training, 3907
head injury, predisposing factors, 2507
hearing, acuity, age, 50
aid, 1019
defect, remedial reading, 2027
thinking of, 4425(a)
honesty, 932
imagination, 1684
institutions, Portugal, 1915
vs. private homes, intelligence, 3950
intelligence, development, 4405(a)
review, 1935-42, 4645
test score, & emotional tension, 644(a)
& parent education, 1340
interests, development, 1705
science, 1636(a)
isolated, evasiveness, 2517
Jewish, social adjustment, 2721
in Jicarilla Apache culture, 1572
labor, & family status, 2041
language, development, 4427
metaphorical, autism, 942
secret, case, 329
learning problems, 4657
left-handed, handwriting, 635(a)
legal protection, 3305
mathematics, interest, grade level, 287
in medieval witch belief, 2817
memory span, 3930
mother, relation, alcohol addiction, 1154
allergy, 1136, 1321
speech pattern, case, 1188
musical vs. non-musical, 3495, 3496
names, among Bari, 3184
Navaho, personality development, 1191
neglect, by community, 2042
object preference, social influence, 1561
Oedipus complex, case, 109
painting, development of, 3508
& personality, 2311
parent relations (see Parent-child relations)
personality, vs. teachers', 4638(a)
perturbations, effects, 1329
physical, examination, Mexico, 4647
growth, measures of, 4421
placement, agency, integration, 1338
clinic in, 940(a)
delinquents, 927(a)
psychological problems, 1341
role of child, 1330
& temporary foster home, 1327
play, program, 4415
psychoanalysis, 110, 728, 1846
psychodrama, 1098
psychological survey, Tennessee, 1702
psychologist, & child study, 2038
psychology, 1706, 2513
history, 1367
infant, 2511
Manual, critique, 2805
parents' guide, 2809
textbook, 2505
racial attitude, 826
reading interest, test, 2450
reality, mastery, 103
relationship, comprehension, 318
religion, church, 176
research, biological, medical, 953
rural, play, work, 194
self ideals, 1694
social, acceptance, in school, 3647
and skin color, 1208
behavior, development, 3303
integrative, 1174
development, group experiences, 1651
discrimination, personality, 637(a)
maturity, development, 184
relations, 1571
Jew-Gentile, 1556
somatic reaction, to stress, 4413(a)
strabismus, 4269
study, bibliography, 3959
history, 1690(a)
methodology, 2038
suicide, hanging attempt, case, 956, 957
superior, algebra teaching, 3735
superstition, psychology of, 2817
symbolism, space, 323
thinking, 2038
training, Kaska Indian, 3660
manual, 4424
semantics in, 4406
undernourished, effect of improved diet, 2046
vision, color, defects, survey, 4279
defects, psychogenic, 3068
school survey, 383, 2129, 2134
visual fields, 3845
war, effects of, 3499, 3509, 4420, 4502
welfare, & psychiatry, Denmark, 3522
worker, 320, 2813
Child behavior problems, 316, 2499, 3506
allergies, 1089, 1321
anxiety, 2630
aphasia, 143
art expression, 4503
autism, 942
blind, 275, 3300
birth month, 958
camping &, 3087, 3101, 3110, 3295, 3298, 3317
cases, 1322
cerebral palsy, 1493, 2649
& community social work, 1704
convulsions, 1700, 3838
deaf, intelligence, 3949
parental handling, 3966
silent reading, 290
tactile discrimination, 1408(a)
training, case, 275
dilatant treatment, 2996
education &, 3318, 4651
EEG, 2996, 3828
emotional disorder, 634
epilepsy, 2675
etiology, 2275(a)
fear, 1319, 3500
feeble-minded, 1112
feeding difficulties, 4404
fetishism, 2520
grandparent, role, 923(a)
hypothyroid, social adjustment, 1328
intelligence tests, 4370
intractability, case, 642
jealousy, 959
mental disorders, 1696
Mexico, 4498
mother, TAT, case, 3331
nervous, 2502
physical basis, 4470
post-hospital adjustment, 923(a), 930(a)
post-polio myelitis, personality tests, 4423(a)
psychoneurotic, 943, 1474
etiology, 2275(a)
factor analysis, 1875
symptom selection, 2229
psychopathic, 2604
psychosomatics, 133, 1331, 1339
psychosis, 3548
rejected, case, 2048
schizophrenia, 772, 773, 774, 1159, 2225, 2228, 2624, 2656, 4447
in school, 1688, 3761
& sleep, 2512
social maladjustment, 3741
socioeconomic status, 1071
special education, 4651
speech defects, 937, 1144, 1486(a) 1493, 1497, 2044
TAT, responses, 3632, 4499(a)
teacher, handling, 4152
selection, 3506
textbook, 4656
Child care, 1326
adolescents, India, 3968
cerebral palsy, 3024
coercion, 325, 326
corporal punishment, 324
cultural factors, 3663
in family, manual, 4416, 4417
fears, avoidance, 3500
institution attendants and, 2816
mental hygiene &, 3591
money habits, 835
mother's role, 796
parent, attitudes, 3321
& health project, 3971
psychodrama in, 3967
race differences, 2724
radio talks on, England, 3311
social class differences, 2724
spiritual problems, 3323
textbook, 2508, 3301

- training, manual, 4474
- Child development, & community, 322, 2039, 2042, 2043(a)
- cultural aspects, 1159, 1699
- & curriculum, 939, 1325
- evaluation, grid technique, 331
- family &, 1317, 2518, 4419
- five-year survey, 1691(a)
- guests, influence, 3299
- guilt & anxiety in, 3638
- history, case, 3962
- Indian, 322
- literature classification, 2837
- Navaho, 3171
- needs in, 3971
- & parent education, 2509
- personality conflicts, 4072
- psychoanalytic theory, 3960
- school &, 1317, 2296, 3961, 4169
- social factors, 1697, 2615, 2810
- speech, 1178
- spiritual, 3323
- textbook, 1685
- theory, 3494
- Child guidance, 2049
- adolescents, 951(a)
- camping &, 3110
- case, 1316
- of cerebral palsied, 3024
- in child placement, 940(a)
- clinic, administration, 941(a), 944(a)
- community resource, case, 3127
- Norway, 3318
- Peabody Child Study, 640
- Worcester, Mass., 926(a)
- in delinquency, results, 3204
- journal, new, 3808
- legal protection of child, 3305
- mother desertion, fear of, 3504
- projective technique, 931(a)
- psychiatry, Denmark, 3522
- mental hygiene, 327
- review, 756, 2980
- psychological vs. medical, 3477
- Rorschach in, 807, 1918, 3146(a)
- service, 633
- school, pre-delinquency, 4074
- program, Detroit, 3741
- social agencies &, 929(a), 947(a)
- in Switzerland, 3629
- textbook, 1914, 4502
- therapy, 317
- attitude toward clinic &, 1105
- Big Brother, 933(a)
- Campbell schools, 4014
- group, 480, 3610, 3625
- individual, 3625
- results, 938(a)
- school role, 894(a)
- techniques, cases, 801
- tutoring in, 1499
- Child, pre-school,
- art training, 1637
- audiometry, 4288(a)
- behavior, conflicting authority, 2516(a)
- education, 1279
- environment, 934(a)
- fantasy world, 1684
- intelligence, 1334
- mental hygiene, 319
- nursery, food consumption, 4414
- school, abilities, 2515(a)
- readiness, 3510
- social relations, 1320
- study in, 3970
- personality, 1706
- kindergarten, 643(a)
- reading test, 300
- Chimpanzee, behavior, sex differences, 196
- dominance status, sex hormone, 519
- neurosis, 2233
- personality development, 4384(a)
- visual discrimination of, 4348(a)
- China, community study, Taitou, 2384
- culture & Christianity, 3183
- population growth, 3661
- Chinese, character structure, 531, 3168
- infant intelligence, 1679
- national characteristics, 531
- in U. S., 1955
- Choice, apparatus, blockwriting, 6
- certainty of, & valence, 2312
- mate, ideal mate, traits, 550
- preference, temporal proximity, 65
- Cholinesterase, in nerve action, 1741, 1744, 2559
- Chorea, heredity, personality, 1138
- Chromatic aberration, eye, 3564, 3882
- Chronaxie, of central n.a. cells, 1746
- & hearing thresholds, 1782
- Church, counseling, 185
- Negro attitude, 1357(a)
- relation to mental hospital, 1910
- Cinema (see also Film)
- cause of hysterical blindness, case, 3060
- Germany, psychological history, 1918-1933, 2375
- in flight training, 2013
- in mental hospitals, 4482, 4488
- popularity, prediction, 585(a)
- projection, & depth perception, 2575
- psychiatric problems, misrepresentation, 2705
- Civil Service, Navy, job evaluation, 3232
- rating of training & experience, 3231
- Civilian, in military psychology research, 4143, 4149
- skills, use of in Army, 4104
- use of Army test data, 4117
- Civilization, Chinese, 531
- European, & psychologies, 4205
- Clairvoyance, historical case, 1063
- Clark University, psychology, 1897-00, 1367
- Class, demonstration, of alpha rhythm, 3842(a)
- size, effect on achievement, 3266
- special, superior child, algebra, 3735
- Classification, bibliographic, child development, 2837
- psychology, 3807
- categorical, use of tests, 4208(a)
- clinic, in correctional institution, 2744
- methods, logic of, 4047
- in prison work, 2750
- sex behavior, abnormal, 1466
- Classroom, lectures vs. radio, 2348
- remedial reading in, 3270
- sociometric study, 1542
- teaching, mental hygiene, 3264
- Clay modeling, child, figure copying, dimension, 1336
- Cleaton Vocational Interest Inventory, 2028
- validity, 2463
- Cleft palate, speech correction, 3128, 3585
- correction following surgery, 3132
- Clerical, aptitude, tests, 1624, 3766
- job seeker, & employment agencies, 1236
- perception test, 3766
- workers, preference, private vs. public employment agencies, 3239
- Climate, & human behavior, 2383
- & human comfort, 1831
- & work, 2176
- Clinic, attitude toward, child, 1105
- Catholic charities, New York, 1909
- child, Portugal, 1915
- community, race relations, 2726
- in correctional institution, 2744
- court, function, value, 2419
- function, 1322
- mental hygiene, for Army, 1908
- standards, 1903
- National Institute for Pedagogy, Mexico, 4498
- out-patient, Armagh Mental Hospital, 1515
- psychometric tests, use, survey, 2527
- Rutgers, service patterns, 1142
- in school system, 4641
- team, personnel, 2292, 3628
- University of Pennsylvania, 2545
- Clinical intuition, 4034
- Clinical psychology, & abortion, 2685
- in Army, 2291, 3382, 3635, 3815, 4035, 4041
- for blind, Michigan, 3633
- in care criminals, 4088
- & dentistry, 3072
- as diagnostic art, 2851
- diagnostic testing in, 1161
- history, 2545
- intuition in, 4034
- measurements, 2273
- methods, 3338
- in Navy, 3814, 4037
- program, Kansas, 2282
- & psychiatry, relations, 2612
- psychometrics in, 2679, 4040
- in rehabilitation, 1258
- research needs in, 3379, 3520
- in special education, 1673
- textbook, 148, 1914
- training, facilities, 3380, 3382 (see also Internship)
- program, Chicago, 3373
- Menninger, 4228
- Veterans Administration &, 2298, 3373
- research needs, 2280
- training program, 2300
- Clothing, moisture gradients, & humidity sensations, 3402
- Cochles, action, measurement method, 3436
- electric potentials, recording, method, 2918
- structures, photographing movements of, 3441
- Cockroach, gustation, 2880
- Code of ethics, psychology, 965, 2206, 3376, 4229
- vocational guidance, 4126
- Code, telegraphic, receiving proficiency, 3291
- speed, 4344
- Coercion, child rearing, 324, 325, 326
- Cognition, paranormal (see Extrasensory perception)
- response, order of dominance, 1426
- theory, Peirce's, 1423
- Cold, after-sensation, 3401
- response of men, 1048
- stimulation apparatus, 3401
- pressor test, & motion sickness, 3906
- Colitis, psychotherapy in, 2249
- ulcerative, psychogenesis, 3569
- Collectivism, psychological aspects, 2709
- College, achievement, & guidance, 1626
- non-high school graduate, 876
- nonintellectual factors, 2452
- prediction of, 1631, 3742
- & problem solving, 1627
- prominence, 2462
- & socioeconomic status, 4542(a)
- veteran, vs. civilian, 2477, 4655
- married vs. single, 2470
- admission, 1661, 4652
- aptitude test scores vs. achievement, 3277
- course, student rating, 294
- educational policies, efficiency, 4652
- experimental psychology, courses, 1737
- faculty, personnel problems, 2007
- graduate, birth rate, deficit, 192
- personnel work (see Personnel, student)
- remedial reading program, 2792
- scholastic success, differential prediction, 4640(a)
- success in, prediction of, 3260
- work, effect, conservative-progressive tendencies, 903
- College student, ability & occupational level, 4128
- academic guidance, 1656(a)
- success, personality factors, 4653(a)
- adjustment scores, Bell, 3134(a)
- arithmetic, percentage difficulties, 892
- decimal computation, 280
- art ability, 1628
- appreciation, training methods, 3210
- major, creative thinking, 3946
- attitude, racial, changes, 4541
- toward British war effort, 195
- toward counselor, 1509(a)
- chemistry achievement, 4642
- counseling, 881
- at Biarritz, 2460
- dating behavior patterns, 4643
- & delinquency, 1601
- emancipation, parent, 214
- English deficiency, & adjustment, 3274(a)
- grammar disability, 601
- guidance, 875, 1626
- when withdrawing, 3273
- home economics, guidance needs, 3737(a)
- interest, school marks, relationship, 890
- medical school, selection, 1671
- men, rate of manipulation scores, 3916
- mental ability, growth in, 2930
- neuroticism scores, India, 3952
- occupational orientation, 909
- post-graduation achievement, 1663
- problem-solving behavior, 1627
- prominence, & achievement, 2462
- psychotherapy, short-term, 1103(a)
- ratings of instruction, 4170
- reading scores, 289
- sex practices, 2347
- social relations, Finland, 824

- speech major, characteristics, 1526
success, failure, experience of, 1537
prediction, departmental major, 602(a)
superior, 4644(a), 4652
test scores, change with schooling, 3290(a)
vs. achievement, 3277
therapy with, social dynamics &, 4495(a)
veteran, achievement, 613(a), 2470
vocabulary size, 1645
woman, counseling program, 4172
emotion & war, 1579
leadership, 4514
learning rate, physical activities, 2464(a)
& poetry, 1590(a), 1591
Rorschach vs. ACE scores, 3480
stereotype, national groups, trend, 548(a)
vocational, interests 2472
problems, 4125
- Color, 2128**
in advertising, value, 4151
chromatic value, concept, 1009(a)
in literature, review, 2907
matching, Moore test, 4611(a)
physics & psychology, 2580
pyramid, brightness, lines, 56
solid, tetrahedral, 3415(a)
space, definition of, 2905
theory, 1024, 1416, 1779
- Color blindness, 2581**
cebus monkeys, 4274
& dark adaptation, 2888
deuteranopia, case, 3432(a)
ethnic factor, 38
hysterical, cases, 2232
Ishihara test, 2479, 4263
& illumination, 1404, 3434
vs. lantern, 2902
school child, survey, 4279
at small visual angles, 3848(a)
test, Monochromatic colorimeter, 2909
theory, 1024
training of, 2900, 3417
vitamin A, effect of, 1414
- Color vision, 2128**
adaptation, human eye, 1398(a)
spectral composition, 1014(a)
binocular color mixing, 2142
binocular fusion, 3429
blue-green separation, 1800
cobra venom, 36
color domain, correction, 2906
& dark adaptation, 1805
in daylight vs. incandescent lamp, 2892
defective, aviation, signal lights, 249
diagram, 49
discrimination, speed & accuracy, 2903
energy minimum, 48
& fixation point, 3849(a)
fixation points for colors, 1779
fovea, 1778
yellow receptors, 1780
sensitivity, 2578
- Inhibition, 376**
improvement, therapy, training, 36
research program, 2581
testing, 1020, 1403, 3411(a)
selection, AAF, 389
training in, 2900
theory, 1024, 1416, 1779
thresholds, & brightness, 3866
training of, 3417
yellow receptor, response, 3850(a), 3852(a)
- Combat, areas, aviation research in, 3716**
aviator, adjustment, 3069
stress in, 2997
conversion hysteria, treatment, 1894
criteria, air crews, 3716
exhaustion (see Combat fatigue)
experience, narcolepsy, case, 1461
hearing loss from, 2914
morale (see Morale)
neuroses, concepts of, 3549
psychosomatic complaints following, 3571
reactions, hypnosis in treatment, 3096
retinopathy, psychosomatic, following, 3579
sexual neuroses from, 1479
- Combat fatigue, 1076**
in aviators, 3069
causes, 1827, 3058, 3059
in flyers, 3555
albuminuria, psychogenic, 2236
- personality disturbance, 767
group psychotherapy, 3617
and morale, 4045
post-discharge condition, 4458
prognosis in, 2633
psychodynamics of, 1878
psychonomatics, gastric diseases, 2639
psychotherapy, 2260, 3603, 3618
Rorschach analysis, 2629
syndrome, 2631
term, in military use, 3562
therapy, 1894, 2633
- Comic books, & school achievement, 3746**
- Communication, art as method of, 4580**
among bees, 3457
behavior, 548
& human relations in industry, 1613(a)
social groups, quantitative relations, 3683, 3685
social psychology of, 4362
study guide, bibliography, 2032
vocal, interference, 2573
- Community, behavior reactions, physiobiology, 358**
business frequency in, 4556
& child development, 2039, 2043(a)
child neglect by, 2042
Chinese village, 2384
foundations of, 4515
& industry, 1975
isolated, culture of, 4538
inter-movement, theory, 2715
labor union in, 2008
neighborhood stability, adolescent friend-
ships, 2388
race problems & Y.M.C.A., 2722
relations, clinics, 2726
recreation, Y.M.C.A., 2738
resources, & child guidance, 3127
rural, prestige in, 1970
self-survey, & discrimination, 4530(a)
school, guidance, 617
social, homogeneity, types, 552(a)
psychodrama, & 4067
structure, child development, 322
work with children, 1704
sociometry, 1195(a), 1211(a)
vocations, frequency in, 4556
war-boom, children in, 1571
- Composition (see also English (language))**
achievement test, 1635
grading, 1635
pupil personality, 1644
writing, flow of words, 1660
- Computation (see Mathematics)**
- Concentration camp, Auschwitz, psychological notes, 4507**
inmates, visual defects, 2122
personality in, 1518, 1925
psychiatric disorders in, 4440
victims, stories, 3656
- Concept, attainment of, 1425, 1426**
child wife, cultural factors, 2392
in epistemological theory, 4361
formation, 2167
experimental, 4359
new test, 4660(a)
retention, stimulus complexity, 411(a)
theory, 3947
method of study, 1425
soul, 15
- Conception, season, & intelligence, 3473**
- Concussion, EEG following, 3830**
psychiatric syndrome following, 3980
- Conditioned response, bark as, dog, 3933(e)**
& cerebral lesion, 3934(a)
decorticate dog, 3933(a)
intensity & latent period, 3940(a)
to light, & optic cortex, 1432
& phi-phenomenon, 694(a), 702(a)
psychoneurosis, military, 119
recovery by insulin coma, 1812
reinterpretation, 3332
restoration, adrenalina &, 2592
- Conditioning, 2152**
auditory, guinea pig, 392(a)
avoidance vs. non-avoidance, 2170
drive, extinction, rat, 413(a)
effect of anxiety on, 2941
auditory cerebral cortex, 2145
of cortical lesions, 3463
extinction (see Extinction)
eyeblink, extinction, 415(a)
of galvanic skin response, 2941, 4332(a)
- generalization, muscular response, 1816
homosexuality, 124
latent learning &, 2935
learning rate, measurement, synapse, dog, 70
proprioceptive stimulation in, 4337
rate, time interval, 2155
re-enforcement, of perception, 2587
response-stimulus relations, 4356(a)
review, 1944-45, 709
sensory, 1483
sound-induced convulsions, rat, 410
speed of in pathological anxiety, 3067
of spinal animal, 2928, 3467, 3468
stimulus, generalization, 420(a)
intensity, 4332(a)
technique, for experimental neuroses, 4457(a)
war, neurosis, 119
- Conference, leadership, industry, 1994**
- Configuration, mathematics, problem solving, 64**
- Conflict, in authority, effect on behavior, 2516(a)**
breakdowns &, 4437
situation, and decision time, test, 1824
audiogenic seizures, rat, 4310
theoretical & reason, 651
use in psychotherapy, 3114
- Conformity, pattern, 2700**
- Conjunctivitis, self infected, neurotic, 3057**
- Connecticut, certification of psychologists, 1377**
- Conscience, mental disorder, etiology, 125**
& superego, 659(a)
- Conscientious objector, student attitude, 528(a)**
- Consciousness, anoxia, glucose effect, 1054**
duration, 2181
center, brain, 360
disturbance of, & brain lesion, 2563
equilibrium theory, 2820
interpretation of, 3332
in sleep walking, 721
theories of, & therapy, 3927
Yoga psychology, 3791
- Conservatism, political-economic, measurement, 533(a)**
progressiveness, college work, effect, 903
vs. liberalism, attitude analysis, 2357
- Consonance, cultural theory, 2920**
- Constitution, biological, & behavior theory, 4189**
- Consumer, interest, measurement, 4135**
psychology, 2819
research, statistics for, 3805
- Contraception, & group differences in fertility, 3167**
- Contrast (see Vision, contrast)**
- Convalescence, & rehabilitation, 4025**
depressive states, euphoria, 479
duration, & personality disturbance, 2237
management of, 1113
- Convict, released, employment prospect, 1243**
- Convulsion, anti- drugs, 2588, 2590**
audiogenic, & Mg deficiency, 484(a), 4233
sensory, preconditioning, 410
in child, 1700
EEG, 3828
electroshock, rat, 437(a), 1879
epilepsy, 1111
epileptic plus neurotic, case, 3557
experimental, electricity, noise-fright, rat, 492
water spray, rat, 770
in rat, review, 3386
therapy (see Shock therapy)
- Co-operation, psychological training, 537(a)**
- Coordination, two-hand, score & practice, 1836**
Cornell Corner, 2045
- Cornell Selectee Index, 1920**
& neuropsychiatric screening, 1512
- Corpus callosum, sectioning, & reaction time, 2566**
- Correctional psychology, handbook, 2758**
- Correlation, canonical distribution, 3341**
coefficient, computing method, 2076
estimating, 1000
serial, distribution of, 3350
correction for range, 3797
distribution of, 3341
matrix, preference analysis, 210
multiserial, 19
partial, method, 12
tests of significance, 3357
tetrachoric, 9

- Cortex, cerebral (*see also* Brain)
auditory, & conditioning, 2145
dog, 1390
activity, sleep walking, 721
alpha rhythm, blocking time, 1742
& autonomic nervous system, 2619
& blood pressure, 3836(a)
chemistry & EEG, 1758
degeneration, rabbit, 362
electric responses, photic stimuli, 1762
electroshock, epilepsy, 470
excitation, localization, 21
function, extracortical traumata &
2565
infant, 4241
inter-, fibers, & reaction times, 2566
metabolic rate, dog, 3395
motor, localization, 2561
muscle, co-ordination, electro-
myography, 76
stimulation, pupillary dilation, 101
structure, rat, 364
thalamic projection in, 3394
visual, & conditioning to light, 1432,
2586
& reflex response, cat, 4272(a)
retinal areas, head injury, 377
vs. cerebellum, in control, neural
functions, 1746
- Cost-utility, as measure of test efficiency, 3796
- Counseling, 899
adult, methods, 1921
agencies, survey, Boston, 4614(a)
attitude toward, measurement, 2283
church, 185
clinical approach, 2425
college, place of test scores, 3277
description, 2274
Dictionary of Occupational Titles, 2021
diagnosis, concepts, 274
evaluation of methods, 3113
group, vocational, 611
high school, Catholic, Middle West, 902
student, program, effect, 2797
technique, 1638
interview, initial, 2686
marriage (*see* Marriage counseling)
method, criticism, 768
Navy Pacific Univ., 1290
needs in, 2466
nondirective, 487, 1127, 1141, 2309
Army chaplain, 4109
blind, 285
group play therapy, 2256
in vocational guidance, 3725
of prison inmates, 2412
recognition of client's feelings, 3105
techniques, 2018
unsuccessful technique, 2668
vs. directive, 3602, 2284(a)
vs. psychodrama, 3611
(*See also* Psychotherapy, non-directive)
- old age, 568
methods, 4428
principles, 2097
professional skill, 594
program, Biarritz, 2460
silence, as technique in, 3116
student, 881
& religion, 4038
Catholic point of view, 4038
personnel, 2444
technique, manual use, 623(a)
test selection, 882
through group activities, 4123
training program, Chicago, 3373
U. S. Employment Service, 2443
V. A. program, 4042, 4129
veteran, Salvation Army, 1245
women's colleges, program, 4172
- Counselor, Army chaplain as, 4109
camp, qualifications, 1633(a)
candidates, attitude toward salary, 1232
characteristics, 2446, 2466
clergy vs. physician, 1509(a)
consistency of, evaluation, 4226(a)
high school, training, 2793
marriage, teacher as, 2387
training of, 2446
vocational, selection, 1299
interests & efficiency, 4525(a)
- Course, lecture, radio vs. classroom, 2348
- Court, clinic, function, value, 2419
- delinquent girls, 2422
juvenile, problems, 2751
- Couvade, case, Englishman, 2603
- Creativeness, aesthetic vs. scientific, 4092
age, 405
art, theory, 2585
artistic, & personality, 816
artists vs. non-artists, 3946
formal expression types, 810
literary, theory, 3470
national differences in, 3170
in schizophrenia, post-leucotomy, 3038
test for, 1431
theory, 1809
thought, 2159
- Cretinism, 458
- Crime & criminals,
abnormality, criteria, 1977
age & 560
alcoholic, rehabilitation, 2765
analysis, research, 2416
Army adjustment, 1596
behavior, & community, 1601
correlates, 3202
causes, 560, 563, 1600
hunger, 1981
social factors, 224, 1598
classification, in prisons, 2750
climate & 560
correctional psychology, handbook, 2758
EEG, 2767, 4076
Gestalt theory, 3696
groups, types, 3686
instigator, reeducation, 2277
intelligence, 561
investigation, lie-detector, 3201
justice, England, 3698
by law-abiding persons, 3208
mental disorder, 1221
culpability, social danger, 220
in mental hospital, social factors, 2745
military, offense, 203
prisoner, anxiety, 508
rehabilitation, 3700
schizophrenic, case, 4086
non-psychotic, responsibility, 4073
orality mechanism, 2743
personality, 1600
physical characteristics, review, 3198
progress reports in prison, 4084
psychoanalysis, 2761
psychological, characteristics, 4578
factors in, 4083
study of, case, 4088
treatment, 1223
types, 4083
psychology, 2743, 2761
psychopathology, 3687, 4077
critique, 4577
psychotic, 2420
& punishment, psychiatry, 1220
rates, in minority groups, 4087
released, employment prospects, 1243
responsibility, in epileptics, 3689
Rorschach responses, 4082
rural, Denmark, 4574
& society, 2756
sociological significance, 2768
statistics, sources, 3702
stature of, 560
textbook, 3702
traffic law offense, 2766
treatment, Spanish America, 1982
types, characteristics, 221
veteran, 223
women, during menopause, 4573
- Criminology, 2758, 3702, 4575
& sociology, 2768
- Crippled child, education, 1324, 1896
- Crippling, psychological effects, 3564
- Criterion, categorical, distinguishing, 2035
combat, air crews, 3716
Naval aviator, 4120
of competence, ranking as, 4094
definition, effect on prediction, 1619
in prediction studies, 988
ratings as, 4116
- Critical ratio, calculation, 991
- Cruelty, of vegetarian, 1923
- Crustacea, nerve fibre, electric constants, 1756
nerve-muscle excitation, 1757
- Cultural anthropology, methods, 4055
theory, 4516
- Cultural factors, & birth rate, 2400
- in case studies, 1555
in child wife concept, 2392
& individual, in social prejudice, 3662
in intelligence test scores, 204, 2933
of woman, 2343
in maturation, 3664
in mental disorder, 1849
in personality, 1159, 2327, 2696, 4050,
4375
in psychoneurosis, Oedipus complex, 2382
in psychosomatics, 2240
in sex behavior, Kaska Indians, 3166
- Culture, American, & schizoid individual, 1084
analysis of, 2373
cinema & 2375
climate & 2383
concept, philosophy of, 4510
conflict, sex role, 529
contacts, Hopi vs. white, 4545
differences, & crime, 4087
effect on attitude measurements, 3161
& education, 4537
eunuchism, history, 549
& human nature, 4509
& primitive mentality, 2381
primitive vs. modern, 1376
maturation in, 1569(a)
problems, Rorschach & 2326
psychiatric aspects, 2607
psychological aspects, 4537
relations, methodology, 2367
of science & man, 4197
religion, 188
science & 4547
& sex behavior, 3655
& social science, 1543
social, effect on action, 832
studies, methods, 4055
styles, treatment, 2727
& Thematic Apperception Test, 1957
theories, 2373, 2920, 4509
traits, transmission by family, 3189
- Cultures, Baiga, sexuality, 2382
Bengal, mourning, 1570
Choctaw Indians, 3665(a)
Chinese, 3168, 3183
village life, 2384
Denmark, vs. Nazism, 4540
Guam, 3181
Hopi, 4516, 4545
Japanese, 2371
Jicarilla Apache, 1572
Kaska Indians, 3166, 3660
Malagasy, 4535
Marshall Islands, 4056
mountain, Tennessee, 1697
Navaho, 1192, 3171
Negro, in Brazil, 1548(a)
New Mexico, Spanish & Indian, 3179
Papago Indian, 1965
Pueblo Indians, San Ildefonso, 3185
Timbiri (Brazil), 3175
Tristan da Cunha, 4538
West Africa, 1582(a)
- Curriculum, & child development, 939, 1325
school, & social condition, 4169
undergraduate, experimental psychology in,
1737
- Curve, fitting, regression lines, 1724
growth, statistics of, 2836
learning, rotary pursuit, constants,
4526(a)
- Cutaneous, discrimination, deaf, 1408(a)
sensitivity, review & bibliography, 2885
- Cyclofusion, 80, 1412
- Cyclophoria, & torsion measurement, 4261
- Dagombas (Africa), personality concept, 3165
- Dark adaptation, 1025
and acuity in peripheral vision, 2898
adaptometer, description, 1002, 2113, 4258
and anoxia, 1796
apparatus, 2571
and brightness perception, 1805
of color blind, 2888
and electric stimulation of eye, 4250
eyelid response, 435(a), 718
measurement, 2113
apparatus, 1002
individual variations, 39
night vision, testing, 379
retinal electrical response in, 4271(a)
theory, mathematical formulation, 46
and ultra-violet, 62, 3435

- and vitamin deficiency, 3869
- Data, analysis, sequential, 1358
 - clinical, and agencies, 963
 - reporting method, 993
 - sociometric, analysis, method, 2362, 2366
 - treatment, scale analysis, 2334
- Davis Item-Analysis Chart, 1676
- Day nursery, effects on child, 2314
- Deafness (*see also* Hearing defect)
 - blind, training, case, 275
 - child, parent guide, 3966
 - diagnosis, 370
 - audiometer in, 2919
 - education, 3758
 - bibliography, 3889
 - from flying, 2916
 - intelligence, 3949
 - lip-reading achievement, 3760
 - psychogenic, 127, 800
 - psychoneurotic, rehabilitation, 136
 - reading, silent, 290
 - rehabilitation, 1788
 - research report, 1021
 - social aspects, 2130
 - tactile discrimination, 1408(a)
 - type, diagnosis by masking tones, 3439
 - in weaving mills, 3892
 - worker, efficiency, 236
- Death, attitude, psychoanalysis, 444
- dream, son-father relationship, 1210
- mourning, child, 330
- Deception, lie detection, methods, 2415
- Decibel, 2136
- Decision time in conflict situation, test, 1824
- Defense mechanism, and ego, 1454
- Defiance, neurotic, case, 3984
- Definition, operational, 2068
- Delayed response, following lobectomy, 1430
- Delinquency & delinquents,
 - Army, prediction, biographical data, 4576(a)
 - & authority, problems, 2746
 - bibliography, 844
 - character evaluation, 2752
 - child placement in, 927(a)
 - civilian, in Navy, 2421
 - clinical study, follow-up, 3204
 - correctional psychology, handbook, 2758
 - emotional maturity, 4072
 - father-fantasies, 4570
 - group psychotherapy, 2632
 - hidden, incidence, 846
 - juvenile,
 - Bernalillo County, N. Mex. 3196(a)
 - bibliotherapy, 4019
 - boy, case, 2418
 - causes & treatment, 4579
 - Cleveland County, Okla., 3688(a)
 - conference report, 3207
 - courts, problems, 2751
 - early recognition, 4074
 - gangs, 1205
 - girl, court, 2422
 - in institution, 2742
 - interpretation, differences, case, 2361
 - legal status of child, 3305
 - Negro behavior, 3691(a)
 - parent rejection, case, 1979
 - postwar, 3512
 - prevention, 4569
 - problems, 1222
 - psychotherapy, Ormsby Village, 496
 - review, 2499
 - school achievement, 4071
 - study of, Peru, 3692(a), 3693
 - mental hygiene and, 3199
 - military, 203
 - recidivism, 3695
 - rehabilitation, 848, 2747
 - selection, Navy, 4036
 - neurosis, mechanisms, 559
 - penal law & psychiatry, 842
 - personality and, 2777
 - potential, recognition, 2764
 - prediction, 562(a), 2369
 - predisposition vs. environment, 2753
 - prevention, 2764
 - problems, 2757
 - projective response, draw-a-man, 3197, 3206
 - psychopath, 222, 847
 - rehabilitation, Navy, 2747
 - Rorschach responses, 515(a), 2417
 - sex (*see* Sex delinquency)
 - social causes, 1601, 3699
 - & stuttering, 1599(a)
 - treatment, authority in, 843
 - preparation for, 2414
 - psychiatric need, 2759
 - verbal facility, 1597
 - & vocational guidance, 1265
- Delusion,
 - historical truth in, case, 1092
 - parasitosis, 163
 - schizophrenic, sexual content, 3546
- Dementia Infantilis Heller, boy, case, 1074
- Dementia praecox (*see* Schizophrenia)
- Democracy, development of concepts, 4409(a)
 - individual, family, 518
 - vs. Fascism, Europe, 4540
- Denervation, muscle recovery following, 2185
- Denmark, psychiatry in, 3522
 - psychotherapy in, 4485
 - rural crime, 4574
 - social reactions with Nazism, 4540
- Dental, defects, and speech defects, 2614
- disorders, psychogenesis, 3072, 3568
- pain, diagnostic significance, 1791
- treatment, psychology in, 4144
- Dentistry, psychobiology in, 1484
 - & psychology, 665, 3969
 - & psychosomatics, 1083, 1484, 3072
- Dependency, and adolescent, 2812
- Depersonalization, epileptic, neurotic and normal, 3540
 - etiology, 1853
 - syndrome, 3039
- Depression, and abortion, 2644
 - agitated, EEG, 134, 1504(a)
 - convalescence, euphoria, 479
 - electroshock, effect, 4446(a)
 - hospitalization of, criteria, 3983
 - lactic acid, effects, 3034
 - menopausal, 1485
 - mental, lobotomy and, 4028
 - non-psychotic, in general practice, 4455
 - psychotherapy, auratonone films, 1132
 - psychotic types, 2622
 - recurrent, case, 469
 - shock therapy, EEG, 134, 1504(a)
 - sleep, EEG, 1867
 - states, time perception in, 2886
- Depth perception (*see* Space perception)
- Dermatology (*see also* Skin disease)
 - psychosomatic aspects, 1318
- Descartes, influence on psychology, 3792
- psychological theory, 671
- Design engineering psychology, 965, 1608, 3733, 4139, 4146
- Air Forces, 2535
- aircraft, 4158
 - artificial horizon, 4630(a)
 - instruments, 4141
 - pilot comfort, 3254
 - cathode ray screens, visibility, 4637(a)
 - communication equipment, 4145
 - gunsights, 4137
 - height finder, 234, 235
 - indicator controls, 4635(a)
 - meter scales, interpretation, 4616(a)
 - legibility, 4636(a)
 - reading errors, 4620(a)
 - military equipment, 1015, 1228, 1229, 1230, 1231
 - history, 2536
 - Navy Research Laboratory, 2538
 - range-finder, 58, 60, 61, 243, 244, 269, 588, 693
 - reticle, 262, 263, 267
 - tank, 264
- Deterioration, in schizophrenia, 4452(a)
- Determinism, psychotherapy, 475
- Detour behavior, learning, rat, 4350(a)
- Deuteranopia, case, 3432(a)
- Development (*see also* Child development)
 - cultural factors vs. growth rhythms, 3664
 - human, test intercorrelations, invariability, 75
 - organismic, physiological gradients, 1819
 - pathological, in feeble-minded, 2998
- Dexterity, effect of cold, 2949
- formboard test, 4663
- tests, comparison of, 4611(a)
- Diabetes, in child, family attitude, 3565
- & taste-blindness, 4249
- vibration sense in, 1770
- Diagnostic methods, ability measuring, crippled child, 3316
- analysis of, 3338
- anthropometry, psychosis, 1472
- clinical intuition, 4034
- in clinical psychology, 1161
- composition, written, analysis of, 1644, 3123
- constitution analysis, 2305
- deafness types, masking tones, 3439
- diagnostic testing, Wechsler, criticism, 3119
- dream analysis, 2323
- EEG in, 1007, 3981
- effort tolerance, 1516
- & expression, 4503
- eye disorders, children, 4407
- feeble-mindedness vs. intellectual retardation, 3536
- psychosis, 3001
- finger painting, 1166, 3634(a)
- grammar rhetoric indicator, 1164
- graphology, 3476
- history, self-inventory, 3121
- homosexuality, with MMPI, 4432
- hypnosis, 1456
- infant development, 4408
- instability, binocular fusion and, 4256
- interviewing, teacher-parent, 3125
- inventory for selection, 1511
- narcodagnosis, in psychosis, 3547
- neuroticism test pattern, 3048
- Parkinsonian syndrome, vibration test, 1095
- physical, in psychoneurosis, 3550
- psychometric, 4040
- in feeble-mindedness, criticism, 3000
- In psychopathy, 2286
- intelligence, 3047
- psychosomatics, 2285, 3577(a)
- Rabin ratio, 3636
- reading tests, 3743
- Rorschach test, cases, 4082
- multiple choice, 1524
- schizophrenia, prodromal factors, 4454(a)
- vs. psychogenic psychosis, 4449
- sentence completion test, 2337, 2697
- survey for teacher, problem children, 4656
- testing, and psychiatry, 3122
- use of intelligence tests, 4370
- war neuroses, 3058, 3059
- Dictionaries, statistics, 3354
- Dictionary of Occupational Titles, and Kuder Preference Record, 3229
- Diencephalon, visual pathways, 2124
- Diet, ketogenic, in epilepsy, 2658
- mental effects, undernourished child, 2046
- Difference (statistics), frequency, analysis by, 2834
- significance, random variables, 3351
- by rank order, 3351
- Digestion, disorders, psychogenic, 3567
- Dilantin, treatment of behavior problems, 2996
- Dilettantism, psychology of, 2823
- Dimension, figure copying child, 1336
- vs. distance, visual perception, 2889
- Diplomacy, psychology of, 4561(a)
- Direction, perception of, and visual field, 2577
- Directories,
 - National Vocational Guidance Association, membership, 2790
 - periodicals, 998
 - social work agencies, 2085
 - South American psychology, 347
- Disability and social psychology, review, 1153
- Disabled, attitude toward rehabilitation, 2665
- job placement, 2014
- Negro rehabilitation, 1502
- work efficiency, 2778
- Discharge, Army, maladjustment and, 2207
- Discipline, of adolescent factory workers, 3243
- child attitude toward, 1689
- formal in education, 1274
- home, behavior, attitude, child, 980
- in prison, problems, 2746
- Discomfort-relief quotient, as measure in social case work, 2360
- Discrimination, anti-, legislation, utilization of, 4544(a)
- brightness, contrast threshold, 1012
- & visual acuity, 1022(a)
- classroom, theory, France, 4654
- color perception, and exposure time, 2903
- combating, use of self-survey, 4530(a)
- distance, effort in, rat, 4351(a)
- habit, and electroshock, 3937
- learning,

- continuity theory and, 4331(a), 4346(a)
 electric shock in, 1815
 monkey, 409(a)
 reinforcement and delayed reward, 4333(a)
 transfer, 4341(a)
 monkey, lobectomy, 397(a)
 pain intensity, 3841(a)
 pattern vision, learning, rats, 4331(a)
 pitch, 2131(a)
 place, in maze learning, 1807
 probability, guessing, 350(a)
 proprioceptive, accuracy, 4625(a)
 selection, critical scores, 304
 tactile, deaf child, 1408(a)
 time, visual, effect of cold, 2949
 visual, first learning, chimpanzee, 4348(a)
 Discussion, group, participation index, 4513(a)
- Disease.**
 attitude, brain potential, 363
 attitude toward, epilepsy, 2676
 chronic, mental hygiene, 3124
 psychosomatic aspects, 1888, 3070
 convalescence, 479
 decompression, scotoma, 391
 equilibrium, standing, walking, 96
 groups, MMPI results, 4505(a)
 mortality from, mental patients, 1469
 nasal, anxiety, 485
 & personality, Rorschach, 1880
 psychosomatic, crime, personality, 167
 Diseases, albuminuria, 2236
 allergies (see Allergy)
 amenorrhea, 1123, 2643
 anosognosia, 1855
 arthralgia, 2640
 asthma, 133, 1321, 3071, 3079
 brain concussion, 2621
 campylocormia, 3576
 cataplexy, 1862
 causalgia, 3843
 cerebral palsy (see Cerebral palsy)
 chorea, 1138
 colitis, ulcerative, 2249, 3569
 conjunctivitis, 3037
 dental, 3072
 diabetes, 1770, 3563, 4249
 dysmenorrhea, 692, 1483
 epilepsy (see Epilepsy)
 gastric, 1881, 2249, 2635, 2639, 3567
 glaucoma, 1883
 goiter, 3483
 headache, 112, 1482
 heart, 1481, 3578
 herpes simplex, 2247
 hydrocephalus, 3539, 4445
 hypertension, 1880, 2641
 infantile paralysis, 2707
 malaria, 1129
 migraine, 1111
 nausea, 2245, 4299
 neck pain, 3996
 neuralgia, 1783
 neurosyphilis, 2217, 3028
 obesity, 1125, 3078
 paralysis, 1133, 2224
 paraplegia, 1086
 Parkinsonian syndrome, 1095, 1880
 pemphigus, 1031
 pneumonia, 2636
 postencephalitis, 503, 4423(a)
 pruritis, 2239
 pyorrhea, 4472
 retinopathy, 3579
 rheumatism, 3074
 of skin, 2239, 2241, 2246, 2247, 2248
 sterility, 473
 sye, 2727
 syphilis, 1114
 tic convulsif, 1150
 tuberculosis, 1893, 2238
 ulcer, 2637, 3992
 duodenal, 1886
 peptic, 1881, 2639, 3073, 3091, 4473
 urticaria, 3572
 venereal, 1480(a), 1598
- Displaced persons, study of, 3656**
Displacement, psychological problems of, 837
 reactions in stickleback, 3919
Displaculus, & hearing acuity, 1787
Distance, vs. dimension, visual perception, 2889
Distraction, effect on serial reaction time, 1832
Distribution (statistics),
 formulas, 1725
 functions, of variable and moments, 3348
 normal, population fractions infinite range, 1359
 Pearson curves, of means, 3358
 of product of 2 variables, 4207
 of "t," 1351
 transformation, temporal, 4214
 Wishart non-central, 1350
- Divination, Bentu, as projective technique, 1574**
Divorce, counseling and, 4546
 neurotic reaction, 749
 vs. stable families, comparison, 3191
- Dizziness, 753**
Document, analysis, last writings, suicide, 2760
 personal, 2070
- Dog, optic cortex, and conditioning to light, 1432, 2586**
 spinal behavior, 1049
 spinal, co-ordination, 431(a)
 war, training, 2924
- Dogma, Freudian concept, criticism of, 2052**
Doll, play, father fantasies, delinquent child, 4570
Dominance, cerebral, and personality, 1434
 chimpanzee, sex hormone, 519
 Don Juan, personality, 1529
- Dostoyevsky, Feodor M., psychoanalytic interpretation, 3153**
Drama (see also Psychodrama), in treatment, reading, disability, 3267
 play experience, personality, speech correction, 1531(a)
 relations of, psychodrama, 3627
- Draw-A-Man Test, correlations vs. Porteus and Binet, 4370**
 as projective technique, 3197, 3206
- Drawing,**
 child, figure copying, shape, 1337
 development in child, case, 3324
 extrasensory perception, 1059, 1068, 1069
 form of, and extrasensory perception, 1160
 as projective technique, fear, 1319
- Dream, content, unconscious language, 446**
 death, son-father relationship, 1210
 frequency, 79
 hypnotic, 1456
 infant, 2196
 migraine, tension, inhibition, 112
 number, psychoanalysis, 3781
 psychology, anthology, 2602
 pre-Freudian, 1452, 2961
 telepathy in, 2191, 2201
- Dream analysis, critique, 3112**
 lion hunter, 2188
 in migraine, 112
 of phobia, case, 2680
 pre-Freudian, 2961
 President Roosevelt's death, 1210
 as projective technique, 2323
 telepathic response, 2191
- Dress, symbolism, 545**
Drive, alien, and extinction, 1814
 biological, and behavior, 4315
 extinction, resistance, rat, 413(a)
 hunger, strength, 4343(a)
 irrelevant, and learned response, 4355(a)
 neural basis, 2935
- Drug, addiction, EEG, 2878**
 analgesic, mental aspects, 2106
 delayed response, effect on, 1430
 effect on, motion sickness, 1449
 nerve action, 1752
 pain threshold, apparatus, 1347
 in psychotherapy, 3606
 therapy, epilepsy, 1116, 2659
- Drugs, acetylcholine (see Acetylcholine)**
 adrenaline, 2592, 3819(a)
 alcohol, 3391, 4436
 allyl thiourea, 1833
 amphetamine, 4044
 anticonvulsant, 2588, 2590
 atropine, 1450
 barbiturates, 3922(a)
 benzedrine, 365(a), 1834, 2594, 3454, 3922, 3924
 bromides, 766
 cholinesterase, 1744, 2559
 cobra venom, 36
 diltantin, 2996
 epinephrine, 3906, 4299
 glucose, 1054, 1786
 glutamic acid, 2944, 3474
- hyoscine, 2958
 insulin, 2126, 4234
 isopropyl alcohol, 2590
 lactic acid, 3034
 magnesium, 4233, 4310
 marihuana, 504, 2322
 methedrine, 3454
 metrazol, 688, 3857
 mecaline, 1437
 morphine, 804, 3036
 nembutal, 4282
 penicillin, 3397
 pentothal, 2669
 phenylthiocarbamide, 4249
 pitressin, 2878
 sodium chloride, 4293(a)
 steroid hormones, 3941
 tobacco, 3391
 veratrine, 1442
- Dumas, G., obituary, 14, 355**
Dutch, resistance, occupation, 543
Dynamics, physiological, theory, 3817
 psychology, Thomas Aquinas, 986
- Dysmenorrhea, pain threshold in, 692**
 psychic factors, 1483
- Dysphasia, retraining, 3130**
- Ear, air pressure in, & auditory acuity, 3894**
 bioelectric phenomena, review, 2917
 infections, & audiogenic seizures, rat, 4314
 inner, mechanics, 1784(a)
 ossicles, development, 1766, 2105
 sound absorption by, 3893
 structure, 2118
- Eastern Psychological Association, proceedings, 1946, 332**
Eating, habits, following hypo-thalamic lesions, rat, 3451, 3452
Economics (see also Socioeconomic)
 behavior, theory, 3159
 psychology, survey method, 1177
- Education, 1303**
 adult, 1288
 religion, psychology, contribution, 193, 201
- Armed Services, lessons from, 4157**
 training, 1254
 behavior integration, 1287
 character, in schools, 1912
 & child behavior problem, 3318
 & child development, 2039, 2043(a)
 concepts in, 1252
 & culture, 4537
 engineering, measurements, 297
 teachers, 2029
- formal discipline, 1274**
group project, 1286
health, evaluation in, 1294
higher, greater efficiency, plans for, 4652
India, effect of language used, 4164
Indians, 2380
 & industry, common problems, 3249
 journal, new, 2838
 & learning, 1253
 & materialistic life values, 4185, 4186, 4187
 mental hygiene in, 1045, 1278
 motivation in, 1055
 Navy, enlisted attitudes toward, 4166
 philosophy of, 1625
 & physiotherapy, 3100
 preschool, primary, 1279
 & psychodrama, 3624
 religion, attitude formation, 201
 mentally retarded child, 615
 psychology, 216
 research, needed, 2478
 & psychology, 1261
 Scotland, 1927-45, 616
 science, implications for, 1292
 social values, 3148
 sociological aspects, 1293
 special, abnormal children, 4651
 blind, 603
 review, 3754
 blind-deaf, case, 275
 cerebral palsied, 3755
 cost, 2469
 deaf & hard of hearing, 3758
 Detroit program, 3741
 high school program, subnormal girls, 3753
 partially seeing, 3752
 sub-normals, 3536

- Switzerland, 3629
statistics, textbook, 980
technical, evaluation in, 1302
theory, Foerster, F. W., 2022
 medieval, 2448
transfer of training in, 1650
types, & student intelligence, 1284
test, ABC, Lourenco, 291
 Armed Forces Institute, GED norms,
 277
 validity, 595
testing, comprehensive examination, Mas-
ter's degree, 619
in vocational competence, 4165
Educational guidance, bibliography, 1660
diagnostic concepts, 274
effect on achievement, 1626
elementary school, 3259
English composition in, 1644
group tests in, 3269
high school, use of tests, 3260
home economics, college students, 3737(a)
junior high school, 1638
Kern County, Calif., 1655(a)
in prison, 1263
program, Biarritz, 2460
 college student, 1656(a)
psychological report, 278
study improvement, 1658
technical ability, measuring, 2020
textbook, 1664
training in, 1371
veterans, 2026
Veterans Administration Center, 607
& youth needs, 2458
Educational psychology, 1303
curriculum needs, 609
elementary school, 2023
individual in, 1649
measurement, 2080
psychologist, function, 1249(a)
review, 1946, 4168
test for readiness, 1666
theory, 3757
Educator, religion, characteristics, 1296
Efficiency, & hours of work, women, 3236
Effort, in distance discrimination, rat, 4351(a)
Ego, auxiliary, psychodramatic technique, 1148
 changes of, in hypnosis, 2189
 & defense mechanism, 1454
 function, depersonalization &, 1853
 & law of effect, 1041, 1043
 & memory, 1151
 & object relationship, 729
 involvement, psychology of, 3335
Elder, David, psychoanalysis, 2192
Electrical phenomena,
 constants, nerve fiber, 1756
 current, effect on vision, 2896
 effect on visual thresholds, 4250
 & ocular tension, 3884
 visual sensation, induced by, 4251
of ear, review, 2917
eye response, infrahuman, 31
field theory, in biology, 2522
in mental fatigue, 5898(a)
nerve action, 1005, 1741
neuro-muscular, review, 2870
optic nerve, cat, 41
organs, fish, action, 1747, 1750
potential, cochlea, recording, 2918
 of eye, 1769
skin, measurement, 432(a)
 resistance, nerve, injury, 23
in sleep, 1443
stimulation, motor units, human, 89
 nerve, minimum power, 27
 respiratory nerve centers, 4242
stimulus, sub-threshold, & nerve impulse,
3396
Electro-acoustic equipment for auditory tests,
699
Electrode, bentonite, resistance, 23
clip-on, EEG, 2875
coordinator, EEG
flexible, EEG, 2874
non-polarizing, 2175
size, & skin resistance, 2856
Electroencephalography,
 alpha rhythm, attention, emotional stimuli,
 22
 class demonstration, 3824(a)
 & sensory stimulation, 1389
 anoxia, 1475(a), 1477(a)
autonomic activity, 20, 3829, 3835(a)
in behavior diagnosis, 3981
of behavior problem children, 1863, 2996
 & benzodrine, 365(a)
brain injuries, 3544
cerebral palsy, 3029
 & chemical action of cortex, 1758
 & concussion, 3830
convulsion, children, 1700, 3828
 threshold, metrazol, 688
of criminal, prison, 4076
 psychopath, 4077
in criminology, 2767
curve, analysis, 29
 & electric shocks, cat, 4245
electrodes (see Electrode)
 & electroshock therapy, 134, 1504(a)
emotion, & ideation, 361(a)
 & wave pattern, 679
encephalophone, 2533
epilepsy, 1116, 3026
 fainting, diagnosis, 1007
 normal vs. abnormal, 2861(a)
 reliability, 1008
 & eye functions, 1769
 fainting & epilepsy, diagnosis, 1007
 frequency analysis, 2098
 ideation, & emotion, 361(a)
 limitations in psychology, 3838
 in medical practice, 2163
 medicolegal aspects, 2974
 mental, disorders, review, 2869
 fatigue, 678
 methods, 3825, 3846
 military use, 680, 1007
 in motion sickness, 2952, 3924
 Naval aviators, 3832
 patients, 2981
 & nervous system, 2063
 obsessive-compulsive reactions, 3061
 in paralysis, familial periodic, 2224
 personality inventory scores, 3954(a)
 phase analyzer, 2877
 photic stimuli, 1763
 physiological factors, 4240(a)
 pitressin hydration, effects, 2878
 post-trauma, head, 3980
 potential, altitude disease, 363
 psychological factors, 4240(a)
 limitations, 3838
 psychopaths, 1388, 2993, 4077
 quantification, 684
 research, AAF, 3531
 review, 1944-45, 685
 & bibliography, 2873
in sleep, vs. hypnosis, 2864
 manic-depressive, 1867
ulcer, duodenal, 1886
variation with time, 3831
water intoxication, rat, 2868
Electromyography, & motor cortex, 76
Electroplax, fish, function, 1747
Electroshock, & activity, rat, 1451
 & alcohol metabolism, 3821
avoidance behavior, rat, 717
convulsion, activity, rat, 437(a) 1879
 & EEG, cats, 4245
 reasoning, rat, 712
effect on discrimination learning, 1815,
3937
 maze learning, rat, 3939
 memory, 2938
 respiration, 3080
 test performance, 4372
epilepsy, concept, 470
learning, rat, 399(a)
nerve, 367, 375
 anoxemia, 366
 personality, 142
therapy (see Shock therapy)
thresholds, drug effect, 2590, 3588
Ellwood, Charles Abram, obituary, 983, 996
Emancipation, parent control, college student,
214
Embazzler, psychopathic, case, 4078
Emergency Committee in Psychology, 1363
Emotion (see also Anger, Fear, etc.)
 adjustment, & intelligence, 928
 alpha rhythm, 22
 brain function, 677(a)
 theory, 4239(a)
development, counseling program, effect,
2797
disturbance, child's, at camp, 3309
education of, 1045
EEG, 361(a), 679
exasperation as, 2950
 & heart disorders, 3578
intelligence, test performance, 644(a),
3498
intentional psychology, 344
James-Lange theory, critique, 3913
in man & animal, 2599
problems, Negroes, Army, 3180
old age, 4429
psychopathic, 792
in psychotherapy, 755
safety, 226
stability, tests, 261, 4176
theory, 1445, 1820, 2177
 & visual perception, 1417
words, reactions to, 3900
Employee, behavior pattern, social factors,
2397
 morale, 1603
 measuring, 2438
rating, 2434, 3234
selection, application blank, 3717
tests, 3222
Employer, attitude toward released offender,
1243
Employment (see also Personnel, Industrial,
Vocational guidance)
 agencies, efficiency, 1236
 private vs. public, preferences, 3239
certificate, in vocational guidance, 2456
counseling, U. S. Employment Service,
2443
interview, record form, 3233
juvenile, guidance, Great Britain, 883
mother, family adjustment, girls, 190
placement service, Quakers, Negro, 581
questionnaire, method, 2445
race discrimination in, 1373
of released offenders, attitudes toward,
1243
services, insurance, 577
techniques, 1983
testing, methods, 3238
war neurosis, 571
Encephalography, air, textbook, 1748
Encephalophone, 2533
Encyclopedias, correctional psychology, 2758
 psychology, 2083
 social work, 2085
Endocrinology, in mental disorders, review,
2982
 & sex behavior, 3392
Enemy identification, case, 2333
Energy, exchange, hypothalamus &, 4231
mobilization, adaptation in, 716
Engineer, in society, role, 2741
Engineering, college admission, 1661
education, learning, 1419
 measurement, 297
 success, prediction, 2480
 teachers qualification, 2029
human factor in, 2432, 2441
sampling economy in, 647
student, Graduate Record Examination,
1298
 personality development, 3709
 vocational interests, 4612(a)
England, social psychology in, 3642
English (language) (see also Composition)
 achievement, test for, 4173
 sentence structure, student disability, 601
 teaching, remedial program, 2454
 usage, test, clerical worker, 874
English school of psychoanalysis, 2187
Enthusiasm-staleness, & physical fitness,
3956(a)
Enuresis, adult male, personality factors,
450(a)
 body perception, 2627
 child, spatial experience, symbolism, 323
 war evacuated, 3509
illiterate soldiers, 1073
military, 117, 450(a)
soldier, 1149
Environment, control, democracy, 518
emotional disorder, child, 634
as etiologic factor, infant, 1703(a)
 & heredity, interaction, 2178
 & homosexuality, 1850
 & personality, 2696
vs. predisposition, in delinquency, 2753
 & psychosomatics, 2240

- Enzyme, in brain, distribution, & mental function, 2617
deficiency, & mental disorders, 4434
& physiological functions, 1826
- Epilepsy, 1111
aura & dreamy states, 3540
child, 1700
attitude toward own condition, 2676
management in colony, 2653
in mental hospital, 2648
personality disorders, 2675
public school, program, 2671
in residential schools, England, 2655
United States, 2672
Rorschach analysis, 2673
vocational problems, 2664
criminal responsibility, 3689
drug addiction, EEG, 2878
therapy, 2659
EEG, 1007
drug effects, 1116
normal vs. abnormal, 2861(a)
reliability, 1008
review, 2869
etiology, birth conditions in, 2222
& hysterical convulsion, case, 3557
inheritance, 3026
institutions, 2648, 2653, 2655, 2672
intelligence, 3030
laughter in, 1131
neuropathology, 2618
psychomotor, memory of seizure, 3020
review, 1946, 3027
syndrome, 2620
treatment, drug, 2659
ketogenic diet, 2658
& war traumas, 3544
- Epinephrine, & motion sickness, 3906, 4299
- Epistemology, 673
Berkeley's, 1428
history, 1900-1930, 1734
& language theory, 4361
- Equilibrium, in consciousness, theory, 2820
review, 1944-45, 701
righting activity centers, cat, 92
standing, walking disease, 96
- Equipment design (see Engineering design psychology)
- Erigena, Johannes Scotus, on imagination, 3364
Errors, vs. reaction potential, learning, equation, 3469
- Eakimo, infanticide, 1956
- Esterase, role in nerve activity, 3827(a)
- Eternity, concept, Karma, 979
- Ethics (see also Code of ethics)
Catholic, in social work, 1172
materialistic values, critique, 4185, 4186, 4187
& inferiority, 4385
political & individual, 4553
purposive values in, 4203
society &, 2403
sociology &, 2699
system of, 2825
- Ethnic, prejudice, child, personality, 637(a)
- Ethnic group, 2390
alcohol, attitude, Jew, Irish, U. S., 525(a)
magazine fiction, differential treatment, 183
prejudice, child, personality, 637(a)
social participation, Armenian-Americans, 2731
- Ethnocentrism, mental rigidity, 542(a)
- Eugenics, & alcoholism, 3558
college graduate, 192
interaction, heredity & environment, 2178
talent, 211
theory, Galton, 2174
- Eunuchism, concept, history, 121
Orient, 549
- Euphoria, convalescence, 479
in multiple sclerosis, 3541
- Evacuation, war, effect on children, 2517, 3509
- Evaluation, in agricultural education, 1267
in fine arts, 1285
in health education, 1294
in home economics, 1281
in industrial arts, 1289
in language arts, 1268
of learning, 1035
of man, textbook, 1047
in mathematics, teaching, 1270, 1300
mental ability, human, 3948
methods, teacher, 1171
& motivation, 2583
- in physical education, 1256
in science, teaching, 1271
in social studies, 1244
of teacher personality, 1171
in technical education, 1302
of understanding, 1251, 1264, 1272
- Evolution, bird species, 2951
- Examination, comprehensive, education, college, 4644(a)
Master's degree, education, 619
Graduate Record, engineering student, 1298
medical student, 296
objective, training, U. S. Navy, 596
use, criticism, 598
- Exasperation, emotion of, 2950
- Executive, ability, 252
bibliography, 566
industry, selection, 2425
merit rating of, 3220
training program, 4598
- Exercise, & altitude pain, 2121
effect on skin resistance, 2856
effect on visual acuity, 3855
law of, vs. mental work, 2947
physiological effects, adolescence, 2814
measures &, 2180
- Exhaustion, nervous, military, concomitant factors, 141
- Expectation, animal, 418
in learning, dynamics of, 4354(a)
- Experiment, behavior, motivation, animal, 492
design, *ex post facto*, 975(a)
individual measurements, 1354
for personality study, 1522
in sociological research, 3160
& statistical method, 1357
group, in learning, 2584
hypnosis for control in, 1348
in parapsychology, difficulties, 1067
in penology, 4572
significance, 2554
social significance, 1376
test, hypothesis formation, factor analysis, 626(a)
trial, criteria, 346(a)
types, 337(a)
variable control, hypnosis, 352(a)
- Experimental, abnormal psychology, 2209
genetic psychology, 2519
neurosis (see Neurosis, experimental)
psychoanalysis, review, 2194
psychology, survey of, 2062
textbook, 966
in undergraduate curriculum, 1737
- Exposure, indecent, psychopathology, 4075
- Expression, formal, types, 810
language arts, evaluation, 1268
psychology, theory, 3481
- Externship (see Internship)
- Extinction, alien drive &, 1814
eyeblink, 415(a)
generalized response, reconditioning, 415(a)
resistance, drive, rat, 413(a)
- Extrasensory perception (see also Parapsychology)
in antiquity, 2190
drawing, 1059, 1069
catalog, 1068
interest inventory &, 1170
& personality, 2336
& response drawings, 1160
- Extroversion, & schizophrenia, 1864
- Eye, 2119
accommodation, convergence, strabismus, 428
pseudo-myopia, 1031
age, 73
anatomy, neural, 1794
anophthalmia, unilateral, 388
chromatic aberration, 3864, 3882
measuring, 4255
convergence, limits of, 4267, 4268
cyclofocusing, measurement, 80
defect, congenital, pedigree, 697
discomfort from lenses, 2143
diseases, & nervous system, 1753
disorders, children, 4407
dominance, binocular vision, range finding, 42
dominant, test for, 3428
electric potential, & function, 1769
response, light, infrahuman, 31
functions of, 1764
- hand, coordination, Moore test, 4611(a)
training, 4284
- lens, light reflex, 2137
- lid, light response, dark adaptation, 718
reflex, rate of, motor learning, 1056
response, light, dark adaptation, 435(a)
- measurements, & myopia, 4281
muscle, imbalance, measurement, 1028
physiology of, & telescope construction, 1765
tension, effect electric current, 3884
ultraviolet radiation, 44
work decrement, 74
- Eye movements, airplane pilot, while landing, 1803
cyclofusional, 80, 1412
& light flashes, 1409
reading, & subject matter, 3265(a)
time relations, 2957
reflex, frog tadpole, 1837
torsion, measuring, 4261
- Factor analysis, 2078, 2079
of anthropometric measures, 1472, 4237, 4439
of criminal behavior, 3202
of geometry achievement, 282
of human ability, 2529
of intelligence, 1813
inverted, behavior types, rat, 4319(a)
personality, 4394(a), 4395
job evaluation, abbreviated scale, 237, 580
of measures of muscle tension, 1436
measures of personality, 1521
method, 978
centroid vs. principal axis, 1353
for qualitative attributes, 4213(a)
simplified, 333
of navigational errors, 4147
opinion poll, 516(a)
of personality, 1533, 1875, 4376
psychophysiology, 358(a)
of Purdue scale for rating pilot competency, 1997
reading comprehension, 1632
of reading tests, 295
review, 1946, 3803
rotation, single plane method, 17
social & economic data &, 981(a)
of technical aptitude, 2020
in test experimentation, 626(a)
textbook, 2833
in typology, 2540
use, test experimentation, 626(a)
of visual measures, different instruments, 4283(a)
- Factor theory, Spearman, critique, 3951
history, 4369
& test construction, 2490
- Factory (see Industry)
- Facts, alleged, belief in, 2351
& values, 4182
- Failure, academic, personality factors, 4653(a)
experience, college students, 1537
& reminiscence, 2931
success, effect on learning, 2157(a)
- Fainting, EEG, 1007
- Fairy tale, *Thumbelina*, 3703
- Family (see also Parent)
adjustment, girl, employed mother, 190
agency, & parent-child relationship, 3297
attitude, in child development, 4419
toward diabetic child, 3565
& behavior problems, 2615
bibliography, 3670
care of mental patients, review, 3104
& child, development, 1317, 2518
growth, 2042
influence on, 1697
crippledness, adjustment, 321
disorganization, counseling &, 1968, 2385
social treatment, 1972
father absent, child attitudes, 4422
Guatemala, Ladino, Indian, 838
guests in, influence on child development, 3799
hostile feelings toward, case, 3561
individual, democracy, 518
instability, 820
internal relations, guide, 4552
Japanese, acculturation, Hawaii, 2379(a)
-American, adjustment to relocation, 3164

- problems in child care, 3301
psychosis, *folie à deux*, concept, 137
relations, fantasies, picture stimulation, 4377(a)
 manual, 4416, 4417
social problems, 1541, 1594
 survey, Luton, 2736
social traits, transmission in, 3189
stability, factors in, 4554
status, of working school children, 2041
textbook, 2393
trouble, effect, 1193
use of psychodrama in, 3967
Family Service Association of America, 2396
Fantasy, companions, child, 1684
 father, child, 314, 631(a)
 masturbation, case, 1858
Farmer, opinion, postwar international relations, 553
Farsightedness, 1010
Fascism, vs. democracy, Europe, 4540
 propaganda, anti-Semitism, 1949
Father, absent, child attitude, 4422
 child attitude toward, 3493
 fantasy, child, 314, 631(a)
 delinquent child, 4570
 putative, psychology of, 2681
 son relationship, dream analysis, 1210
Fatigue, & adrenal cortex, 95, 1446(a)
 auditory, & types of deafness, 3439
 benzedrine effect, 1834
 chronic, etiology, 4456
 drug effects on, 3454
 effect on stance, 3910(a)
 eye, work decrement, 74
 feeling of, anoxia, 1448
 from prolonged wakefulness, 3923(a)
 industry, prevention, 867
 mental, & physical effects, 3908
 bioelectric phenomena, 3898(a)
 electroencephalogram, 678
 motivation, stereoscopy, 59
 muscular, measurement, 3385
 & muscular tension, 1447
 neurasthenic, test, 1516
 & recumbent balance point, 3909(a)
 resistance, measures of, 1822
 visual (see Vision, fatigue)
Fay-Wintsch Mental Test by Drawing, 4178
Fear, & anxiety, 718, 1078
 in aviation personnel, 2972
 basis of, 3903
 in blind child, 3300
 drawing, child, 1319
 gastric HCl, dog, 4235(a)
 in Kaska society, 3660
 theory, review, 427
 of water, avoidance of, 3500
Feeble-mindedness (see also Mental deficiency)
 & alcohol, 2978
 in Army, adjustment, 3017
 care of, Denmark, 3535
 cerebral palsy, test performance pattern, 3029
 clinical types, pathology, 2998
 colony-care program, Haven, 3006
 education, 1659(a), 14651
 high school, 3753
 religious, 615
 heredity in, 3005
 hypothyroid, social adjustment, 1328
 in infancy, diagnosis, 4444
 intelligence, projective techniques, 472
 institution care, results, prediction, 3009
 inmates as hospital helpers, 3010
 recreation in, 2999
 training, Rome, 3011, 3018
 Lapeer, 3012
 Southbury, 3007
 Wayne County, 3002
legal determination, Virginia, 1381
and mental disorder, 149
with muscular dystrophy, Rorschach responses, case, 3538
in Naval personnel, 2777
occupational therapy for, 3008, 3016
pathology in, 2998
phenylpyruvic, case, 474
projective technique, diagnosis, 472
pseudo-, case, 3063
psychogram, for predicting success, 3009
psychoneuroses in, 3003
research, 145
review, 1946, 2980
social adjustment, training, 3015, 3753
 maturity test, 184
 soldier, rehabilitation, 465
 & speech retardation, diagnosis, case, 3014
 sterilization of, 3004
 suicide attempt, case, 4471(a)
 variation in homogeneous IQ group, 3000
 vs. intellectual retardation, 3536
 vs. psychosis, differential diagnosis, case, 3001
Feeding apparatus, mouse, rat, 990
Feeling, judgment, modification, 2161
 states, children, measuring, 3963
Femininity, masculinity, word association scale, 825
 psychology of, 3136, 3137
Fenichel, Otto, obituary, 669
Fertility, human, social factors in, 3167
Fetishism, case, 2205
 in childhood, 2520
Fetus, behavior development, sea turtle, 4403(a)
 behavior, heart rate as indicator, rat, 4402
 development, normal vs. hyperthyroid, rat, 3958
 human, behavior, 2503
 movement, & mother's activity, 3497
 omnicles, development, 2105
Fiction, psychological concepts, Holmes, O. W., 2200
 magazine, minority groups in, 183
Field, theory & parapsychology, 1065
 concept, in biology, 2522, 2528
 in psychology, 2855
Field, H. H., obituary, 343
Fighting, mouse, learned non-adaptive behavior, 4318(a)
Figural after-effects, in space perception, 3421
Film, in adult education, 1670
 analysis, national characteristics, German, 2375
 auratone & psychotherapy, 1132
 industrial, 1668
 personnel selection procedures, 4604
Finger, -nail biting, consistency, 632
 painting, 1166
 interpretation, 3144
 & personality diagnosis, 3634(a)
 tremor, measurement, apparatus, 424(a)
Finland, college students, social relations, 824
 mental disorders, frequency, 1104
Fish, electric, nerve action, 1747
 physiology, 1750
 migration, theory, 2591
 movement & light & temperature, 3918(a)
 social behavior, classification of, 4047
 stickleback, displacement reactions, 3919
 taste vs. chemical sense, 3404
Fixation, abnormal, 507(a)
Flexibility, & motor performance, 2594
 -rigidity, personality, 1520
Flicker, auditory analogue, 4289(a)
 degree, moving objects, 40
 frequency, & flash duration, 4252(a)
 & Lissajous figures, 2569
 fusion frequency, & brain lesions, 4262(a)
Flight (see Aviation)
 surgeon, function in treating anxiety, 2965
 functions of, in maintaining pilot adjustment, 2997
 methods, reports from, 3069
Flying, ability, depth perception, 380
 compatible partners, selection, 2447
 ear disorders from, 2916
 instruction, methods, 4163
 learning curve, 402
 performance tests, 2003
 physique &, 4136(a)
 skill, measurement of, method, 3942
 tension, in learning, 4006
 training records, criteria of proficiency, 4591(a)
Foerster, Frederick Wilhelm, educational philosophy, 2022
Folie à deux, concept, 137
 & heredity, 1471
Folklore, seers, 111
Folk society, 1576
Food, calorie intake & work output, 1235
 consumption, nursery children, 4414
 preference, nursery children, 4414
 protein, self-selection, rat, 4292
 taking, premature infants, 86
 hoarding (see Hoarding)
 preference & learning, rat, 3926
selection, 439(a)
vitamin (see Vitamin)
Foot, vs. hand controls, 4626(a)
Foot lambers vs. foot candles, conversion tables, 2899
Foreign policy, psychological aspects, 1937
 psychology for diplomats, 4561(a)
Foreman, attitudes, effect on workers, 3706
 in human relations, 3712
 industry, status of, 3237
 training, 849, 4592(a), 4598
 psychodrama in, 4093
Forgetting, rate, 396(a)
Form, acuity, in peripheral vision, 2897, 2898
 indefinite, perception, 35
Formboard special relations, dexterity, 4663
Foster care, effect on child, 3302
 methods & problems, 3507
 placement, needs, 1701
 psychological aspects, 3308
 rural problems, 1693
 prospective, home study, 2732
 rejected child, case, 2048
 success, parent-child relationship, 935
 temporary, case work, 1327
 values & problems, 2510
Fovea, color sensitivity, 1778, 2578
 yellow receptors, response, 1780
France, psychiatry in, 1852
 medicolegal, 150
 psychology in, present trends, 1711
 postwar, 656
 review, 1945-46, 2542
 vocational guidance, 1291
Freedom, determinism, psychotherapy, 475
"Freezing" behavior, rat, social factors, 1577
French, language, school achievement in, 4167(a)
Freud, S., biography, 440, 3369
 in science history, 342
 sex theories, 3902
 vs. Jung, transference theory, 4200
Friedjung, Joseph K., obituary, 676
Friendship, adolescent, neighborhood stability &, 2388
 rural, 1589
 stability, 1559
 urban, 3511
Jew-gentile, 1556
Frigidity, hypnoanalysis, 742
 prophylaxis, 1478
 theory, 2250
Frustration, aggression, child, 2501
 hypothesis, 2335
 critique, 4375
 & war, 3671
 behavior, stickleback, 3919
 & incomplete adjustment, mice, 1931
 & psychosomatics, 2240
 tolerance, measures, children, 4426(a)
Fugue, states, in military personnel, 3985
 psychoanalytic theory, 3985
Functional concept, in psychiatry, 1460
 nervous disease, concept, history, 1465
Galdós, Benito Pérez, psychology of, 2971(a)
Galen, temperament types, 4383
Galton, Sir Francis, eugenics theory, 2174
Gambling, psychoanalytic interpretation, 3151
Game, aggression in, 2341
Gang, autonomous group, 1205
 boys, social dynamics, 3640
Garrett, Henry E., portrait, 1421
Gastric disorders, 1881, 2249, 2635, 2639, 3567
General Clerical Abilities Test (Army), 3777
General Educational Development Test, USAFI norms, 277
Generalization, child, 641(a)
 of muscular response, 1816
 in scientific methodology, 2827
Genetic psychology, 2519
 history, 1367
Genetics (see Heredity)
Genius, 2147
 character of, Simón Bolívar, 3486
Geriatrics (see Old age)
German (see also Nazi)
 attitude, Nazi atrocities, 198
 cinema, analysis, 1918-33, 2375
 nationality, psychological, criticism, 207
 psychology, interpretation, criticism, 207
 war behavior, 2729
Germany, displaced persons, 837
 military psychology, World War II, 4622

- political cleavage, sociometric study, 2395
 postwar, social situation test, 2334
 re-education of, 4557(a), 4559(a)
 psychological problems, 834
 research program, work physiology, 859
 resistance movement, 830
 rural areas, Niam in, 2730
 youth in, history, 3491
 Gerontology (see Old age)
 Gerstmann syndrome, review, 3019
 Gestalt, patterns, rhythms as, 2948
 psychology, 2065
 social situations, 526
 textbook, 3787
 theory of crime, 3696
 Ghosh, R., obituary, 2544
 Gilliland-Shotwell Infant Intelligence Scale, 624(a)
 Girl, adolescent, problem, case, 3514
 sex maturation, 3315
 appearance & personality, 1932
 diaries, analysis, 2040
 family adjustment, employed mother, 190
 isolated, case, 2208
 learning, gross body skills, 2922
 maturation, 1332
 motor ability, Negro vs. whites, 4526
 personal problem, revealed in letters, 3123
 promiscuous, 1913
 subnormal, high school program, 3753
 in institution, 2742
 suicide, case, 1687
 strength, & menarche, 3501
 Gland, adrenal, cortex, fatigue & 95, 1446(a)
 deficiency, mongolism, cretinism, 458
 endocrine, & fish migration, 2591
 sweat, distribution, output, 1052
 odoriferous, in rabbit, 3384
 thyroid, 1853
 Glaucoma, & personality, 1883
 Glossaries, graphology, 1530
 logic, 1034
 psychology, abnormal, 476
 Glutamic acid, & mental functioning, 2944
 & test performance, 3474
 Glucose, & visual defects from anoxia, 1786
 consciousness in anoxia, effect on, 1054
 Goal, anticipatory learning, rat, 4327
 differences, & resumption of activity, 3453
 God, concept of, children, 3964
 Goddard, Henry Herbert, portrait, 1369
 Goiter, patients, socio-psychological characteristics, 3483
 Government, law, woman, democracy, attitude, 209
 officials, selection, 841
 opinion research, 521
 psychologist as experts, problems, 1738
 representative, statistics of voting behavior, 3802
 social psychology of, 1567
 Goya, etchings, psychoanalysis, 217
 Gradient effect, verbal learning, 408(a)
 Graduate Record Examination, engineering students, criticism, 1298
 medical students, 296
 Grading, composition, English, 1635
 Graininess, photographic emulsion, vision &, 3420
 Grammar, work usage, diagnostic use, 1164
 Graph, 3-dimensional, model, 2829
 Graphology (see also Handwriting)
 manual, 1530
 in personality study, 1535, 3462, 3476, 3481
 textbook, 3485
 Great Britain, House of Commons, social factors, 1973
 military personnel, selection, 2010
 rehabilitation in industry, 1238
 Greed, as aggression, importance, 4294
 Gregariousness, manifestations, 4515
 Gregory Academic Interest Inventory, 3774
 Group, affiliation of urban residents, 2733
 association, adolescents, 2388
 autonomous, library service to, 1214
 loyalty, conflict, 1205
 behavior, definition of, 4520(a)
 discriminatory leadership, effect, 2410(a)
 clannishness, Jews vs. Gentile, 1556
 collective attitude toward, 2709
 counseling, vocational, 611, 4123
 criminal, 3686
 discussions, psychodrama in, 4155
 effects, insect development, 2739
 experience, school publication, 1651
 experiment, in learning, 2584
 guidance, methods, veteran, 2269
 program, 906(a)
 in adult education, 1288
 inter-communication, via art, 4580
 contacts, & Stouffer's law, 1175(a)
 relations, problems, 1941
 & judgment modification, 2166
 management in teaching, 1266
 natural, in society, 1180
 Oral Performance Test, 904
 organization, 1196, 1215(a)
 psychoanalysis, 730
 psychological dimensions, 4520(a)
 relations, U. S., 2740
 rural, Nazism, Germany, 2730
 social work, with mothers, 2255
 stability, in military selection, 1514
 study of, methods, 1947, 1948
 understanding, symposium, 4510
 work, Y.M.C.A., 2738
 Group psychotherapy
 activity, vs. interview, 3623
 selection, child, 480
 in allergy, 455(a), 1077
 analytic approach, 1135
 auratone film in, 1132
 bibliography, 2267
 child, play, 4497
 in child guidance, hospital, 3625
 & civil readjustment, 3598
 classroom teaching as, 3264
 of college students, 4495(a)
 of combat fatigue, 3617
 death of therapist, adjustment to, 3620
 in delinquency, 2652
 education classes as, 3264, 3596
 extra-mural clinic, 3610
 in guidance clinic, 3610
 journal, new, 2086
 military, 1911(a)
 hospital, 2252
 psychiatry, value, 3091
 setting, 3621
 neurotics, Army, 1506, 3593
 veterans, 2259
 patients reaction to, 2667
 play, nondirective, 2256
 & psychiatric social work, 3106, 4489
 & psychodrama, 1110, 1119
 psychopaths, Army, 1889
 recreation as, 776
 in rehabilitation, 2250
 sociatry, 3614
 for speech disorders, 3580
 theory of, 3619
 for training therapists, 3092
 use of written questions, 3090
 vs. individual psychotherapy, 3616
 vs. psychoanalysis, 730, 3622
 Grove Modification of Kent-Shakow Form-board Series, reliability, 2804
 Groves, Ernest R., obituary, 999
 Growth, child, evaluation, grid technique, 331
 curves, statistics of, 2836
 rate, Chinese population, 3661
 & sleep lack, rat, 1828
 Guam, social problems, 3181
 Guatemala, family life, Ladino, Indian, 838
 Guessing, probability discrimination, 350(a)
 Guest, family, influence on child, 3299
 Guidance (see also Counseling, Educational guidance, Vocational guidance)
 of adolescent, 2049
 bibliography, 605, 895
 community school, 617
 counselor, qualifications, 594
 description, 2274
 group methods, veteran, 2269
 rural youth, 3729
 interest test in, 2146
 interview initial, 2686
 personal research, U. S. Army, 565
 principles, bibliography, 564
 in prison, individual study program, 1263
 religious vocation, 917
 test score differences in, 4609(a)
 use of Army test data in, 4117
 workers, training, psychodrama in, 3604
 Guilt, as social control, 3638
 Guinea pig, auditory conditioning, 392(a)
 Gunfire, & hearing acuity, 1799, 2133
 Gunner, examination, 916
 Gunsight, aircraft, psychology &, 4137
 Gustation (see Taste)
 Habit, disorganization, electroshock, learning, rat, 399(a)
 fixation, abnormal, 507(a)
 food selection, 439(a)
 money use, child rearing, 835
 strength, drive, extinction, rat, 413(a)
 Hall, G. S., 1367
 Hallucination, color, mescaline effect, 1437
 visual, and brain lesions, 2221
 Halo effect, control of, 4378(a)
 Hamster, convulsion, sound-induced, magnesium deficiency, 484(a)
 Hand, occupational markings, 1227
 strength, test, 81
 vs. foot controls, 4626(a)
 Handedness, and cortical lesions, 2865(a)
 determination by parents, 3907
 left-, school children, survey, 2945
 handwriting, child, 635(a)
 right vs. left, and personality, 1434
 and stuttering, Greek children, 3129
 Handicapped (see also Blind, Deaf, Feeble-mindedness, etc.)
 child, crippled
 adjustment, 321
 education, 1896
 Illinois plans, 478
 education of, 1673
 guidance, attitudes, 3099
 job placement, 1226
 mentally, rehabilitation problems, 2651
 physical, adjustment, 3099
 bibliography, 1508
 work capacity, 1612
 social psychology, review, 1153
 Handicrafts, vocational guidance, 1246
 Hand-tool Dexterity Test, norms, 4095
 Handwriting, of children, South Africa, 3745
 of congenital word-blind, 4649
 of famous murderers, 3697
 heredity in twins, 2597
 in hypnosis, 4322
 identification of, 1588
 intelligence, personality, ratings, 500(a)
 left-handed child, 635(a)
 manuscript vs. cursive, 1647
 in mental disorders, 3035
 and personality, 1535
 remedial, 599
 of twins, 1841, 3462
 types of, 4649
 Hanks Test Scoring Machine, 2537
 Hard of hearing (see Hearing, defect)
 Harris Test of Lateral Dominance, 4662
 Harrower-Erickson Multiple Choice Group
 Rorschach Test, military use, 514
 reliability, 2693
 validity, 1524
 vs. Behn and Rorschach, 4389(a)
 Hartshorne, Edward V., obituary, 987
 Harvard Psychological Laboratories, description, 4220
 Hate, and prejudice, 1585
 Haven (The), colony program, 3006
 Hawaii, labor relations in, 4594
 negro acceptance in, 4524, 4534
 race relations, World War II, 4536, 4548
 Haze, and rangefinding, 3864, 3882
 Head, injury, child, predisposing factors, 2507
 neurosis after, case, 787
 personality following, 1854
 psychiatric syndromes following, 3980
 subjective syndrome, case, 1861
 visual disturbance, 377
 pain syndromes, 1783
 as sound diffractor, 3449
 Headache, military selection and, 802
 treatment, 1482
 Health, education, evaluation in, 1294
 and musical rhythm, 2701
 social psychological factors, 1566
 Hearing
 aviation, auditory signals, 37
 binaural, acuity, 1029, 3446
 brain, 371
 diagnosis, electric potentials, cochlea, 2918
 and equilibrium, review, 1944-45, 701
 in infants, 1775

- interrupted noise, fusion frequency, 4289(a)
localization, neural relations, 3448
measurement (see Audiometry)
mechanism, 2118
neural pathways, 3448
noise, discrimination, 695
 effect, 1771
organ of Corti, opusculum, 381
pitch, loudness, 53
test (see Audiometry)
theory, 2921
 two-place, 3885
threshold, audibility vs. tonality, 4290(a)
 short duration stimuli, 1782
tolerance limits for sounds, 4291
underwater sound, U. S. Navy, 240
- Hearing acuity, 2131(a)
 and air pressure, 3894
 binaural vs. monaural, 1029, 3446
 change, age, child, 50
 and diaphanous, 1787
 and gunfire, 1799, 2133
 measurement methods, 1777, 1801
 underwater, 3447
 with & without aid, 2912
- Hearing aid, clinics, description, 2912
 comfort level, 2109
 design, tolerance limits for sounds, 4291
 emotional acceptability, 372
 psychological factors, child, 1019
 selection of, 372, 2109, 2112
 volume adjustment, 2109
- Hearing defect (see also Deafness)
 from battle noise, 2914
 child, thinking, 4425(a)
 educational problems, 3758
 gunfire and, 1799
 high tones, prevention, 1774
 low, verbal test, 2915
 military, audiometer, 691
 in pilots, 2120
 and reading disabilities, child, 2027
 rehabilitation, 1788
 social aspects, 2130
 for speech, 2913
 tinnitus, cause of, 2911
 tolerance limits for sounds, 4291
 verbal tests for, 2915
 in veterans, 3440
- Heart, conditions, psychogenesis, 3578
 disease, psychosomatics, 1481
 ideas of, Malagasy, 4535
 rate, autonomic nervous system, EEG, 3535(a)
 venous pulse, graphic recording, 83
- Heat, acclimatization, physiological aspects, 4232
 adjustment to, 2176
- Heightfinder (see Rangefinder)
- Hemiplegia, body image in, 2883
- Hen, laying rhythm, artificial, 4302
- Heredity, alcoholism, 2688, 3055, 3558
 audiogenic seizures, 3023, 4305(a)
 and environment, interaction, 2178
 of epilepsy, 3026
 in feeble-mindedness, 3005
 and folie à deux, 1471
 of general ability, 4368
 handwriting, twins, 1841
 learning, chicken, 400
 of maze learning, 4368
 mental disorder, 1464
 review, 2979
 in narcolepsy, 1463
 of personality traits, 4387
 schizophrenia, 1470, 2227
 speech, twins, 2596
 theory, 1342
- Herpes simplex, psychogenic, case, 2247
- Heterophoria, tests for, 2904
- High school,
 Catholic, counseling, 902
 counselor, training, 2793
 educational measurements, trends, 1634
 entrance, test for, 3772
 extra-curricular activities and social adjustment, 3275
 grades, predictor for college success, 1631
 guidance (see Educational guidance)
 mental ability, enrollment, 597(a)
 personnel work, 621
 reading, 1643, 2483
 vocational guidance, 1283, 3727
- Interest test, validity, 907
- High school students,
 achievement, prediction, 3272(a)
 social studies, 2467(a)
 and special ability, 911
 and study methods, 3279(a)
 vs. intelligence, 3281(a)
 attitude toward minorities, 3667
 teaching, 3740
 business preparation, 1241
 character, 1527(a)
 counseling, effect on, 2797
 Japanese-American, ability, 3177
 mental ability, 597(a)
 mentally deficient, 1848
 personality, 1922
 rating system, 1273
 science talent, 1710
 selection, 1257, 4156
 vocational choice, 3230(a)
 insight, 4165
- Hindu psychology, 334
- History, interpretation, psychological aspects, 2530
 methodology of, 3340
 persons, study of, method, 3957
 of psychology (see Psychology)
 of public opinion research, 3643
- Hitler, Adolf, psychoanalysis, 2195
 youth movement, reading and, 3679
- Hoarding and metabolism, rat, 4321(a)
 in rats, social influence, 1444
 and temperature, 1829
 water, by rats, 4296
- Hölderlin, schizophrenia, poem analysis, 791
- Holism, psychological theory, 3333
- Holmes, O. W., psychiatric novels, 2200
- Holt, E. B., biography, 331
- Holzer, Harold, case analysis, 2361
- Home, economics, evaluation in, 1281
 lack of, and alcohol addiction, 1212
 life, girl, employed mother, questionnaire, 190
 study, for prospective foster care, 2732
 work and achievement, 873
- Homicide (see Murder)
- Homing behavior, bird, theory, 1839
- Homogeneity, attitude, 839
- Homosexuality, case, 2210
 cause, developmental, 3158
 conditioning, 124
 diagnosis, with MMPI, 4432
 environmental factors, 1850
 personality, 1168
 sadism, 453
 and sex development, 3158
 types of, 3527
 in women, 2984
- Honesty testing, motivation and, 932
- Hopi culture, and behavior, 4516
 and white contact, 4545
- Hormone, androgen, sex behavior, castration, age, rat, 72
 sex, social dominance, chimpanzee, 519
 testosterone, deferent duct, castrate starling, 104
- Horney, K., psychoanalysis, theory, 733
- Horsefly, chemoreceptor, 690
- Hospital, mental, military, social work, 115
 music therapy, 1901
 volunteer workers, selection, 4013
 personnel problems, 2781
 psychiatric care in, 1096
 psychodrama, 1093
 psychologist function, 123
 psychotherapy, criticism, 160
- Hospitalization, depressives, criteria, 3983
 duration, mental patients, 129, 2231
 neuropsychiatric, values, 3098
- Hotelling's weighing problem, 1354
- Housing, sociology, method of research, 3160
- Human, behavior, Rorschach and, 2326
 engineering section, Office of Naval Research, 864
 factor, in engineering, 2432, 2441
 industrial safety, 2431
 in industry, 863, 2774
 management, 575
 limit of work, 1840
 relations, in research institution, 1611
 industrial, 1602, 1987, 2015, 3712
 responses, in Rorschach, 2691
- Humanics, 674
- Humanist-educator, reading interest, 896
- Hume, David, *Treatise*, criticism, 1735
- Humidity, sensation, and clothing moisture, 3402
- Humor, in race conflict, role, 2723
- Hungary, psychology in, 4221
- Hunger, brain center, 4234
 and crime, 1981
 drive, strength, 4343(a)
 effects, relief work, manual, 85
 insulin induced, 4234
 protein need, rat, 4292
- Huntington's chorea, heredity, personality, 1138
- Hydra, geotropism, negative, 1823
- Hydrocephalus, incidence in new born, 4445
 mental ability, case, 3539
- Hydrochloric acid, gastric, and fear, dog, 4235(a)
- Hyocine, effect on motion sickness, 2958
- Hyperopia, 1010
- Hypernoea, and forced breathing, 720
- Hypertension, emotional, rat, 1476
 Rorschach responses, 1880, 2641
- Hyperventilation, effect on visual acuity, 3856
- Hypoanalysis, 2261
 case, 445, 1070
 frigidity treatment, 742
 with prisoners, 2661
- Hypnosis, age level regression, case, 2313
 age regression, mental age, 448(a)
 anesthetic, history, 1458
 anti-social compulsions under, 2963
 consciousness and, 3927
 dangers of, 3461, 4306
 in diagnosis, 1456
 EEG in, 2864
 ego, changes, 2189
 for experimental control, 352(a), 1348
 handwriting in, 4322
 psychiatry, techniques, 147
 susceptibility to, 1455
 theory, Freud, 732
- Hypnotherapy, 442, 3597, 4032
 acute combat reactions, 3096
 amnesia, case, 3066
 anxiety, neurosis, case, 4485
 in impotence, case, 4029
 in passive neurotic behavior, 4023
- Hypochondriasis, therapy, history, 4024
- Hypoglossus, nucleus, action potentials, 3837
- Hypoglycemia, and neurosis, MMPI scores, 3049
 and visual thresholds, 2126
- Hypogonadism, after 5 year treatment, case, 4471(a)
- Hypothalamus, dipsomania, 122
 and energy exchange, 4231
 lesions,
 and eating activity, rat, 3452
 obesity and activity, rat, 3451
 sleep, rat, 93
 potentials and afferent impulses, 2867
- Hypothesis, fiction, concepts, 1247
 reliability of, 973
 statistical, testing of, 3349
- Hysteria, 1079
 and blast syndrome, 3045
 blindness, case, 3060
 color blindness, cases, 2232
 combat, treatment, 1894
 conversion, transference, case, 118
 management, case, 4465
 suggestion therapy for, 4486
 theories, history, 4464
 visual fields in, 3845
- Ideal, child development in, 1705
 mate, traits, mate choice, 550
 self, childhood development, 1694
- Identification with the enemy, case, 2333
- Ideology, pattern, measurement, 533(a)
 study, use of open-ended questions, 4386(a)
- Idiocy, amaurotic family, case, 3537
 phenylpyruvic, case, 474
- Illegitimacy, Negro attitudes, 828(a), 1971
 interview, 2686
 social case work, 1580
 with unmarried mother, 1217
- Illiteracy, military training program, 593,
 1262, 1306, 1646
- Soldier, Terman Vocabulary test, 1307
- Illness, chronic, mental hygiene of, 3591
 psychosomatic aspects, 3070

- rehabilitation in, 4025
physical personality &, 789, 790
social psychology, review, 1153
- Illumination**, handbook, 4280
level, retinal adaptation, 4276(a)
reading rate, comprehension, 292
requirements, tables, 2899
standards, 2579
visual field size, 3431
performance, 390, 3867(a)
threshold, 1026
- Illusion**, autokinetic, proprioceptive factors, 4270
cameo-intaglio, 1418
Freudian concept, criticism of, 2052
horizontal-vertical, 3413
suggestibility, 743
- Image**, perception, axial inversion, 1418
Imagery, & animal behavior, 2924
Imagination, Augustine on, 3363
creative, Shakespeare, 3470
Johannes Scotus Erigena on, 3364
of preschool child, 1684
theory, 711, 2154
- Immaturity**, emotional, parent-child relation, 4443
- Impotence**, 1087
hypnotherapy, case, 4029
male, gynecic factor, 3979
military personnel, 4469
psychotherapy, 2301
theory, 2230
- Impurity**, psychological analysis, 4048
- Incentive**, effectiveness, butter wrappers, 248
industry, labor relations, 3242
system, in industry, 2003
- Inclination**, visual, estimating, 4275(a)
- Incomplete sentences test**, 2337, 2697, 4386(a)
- India**, blind, management in, 4161
climate, adjustment, 2176
college students, neurotic, 3952
education in, & language used, 4164
fakir, 527
Hindu psychology, 334
mystics, auditory perceptions, 3895
soldiers, mental disorders, 2613
students, intelligence distribution, 4162
- Indians (American)**, culture, intelligence test based on, 3289(a)
child development, 322
childhood education, 2380
Choctaw, status of, 3665(a)
culture & personality, Thematic Apperception test, 1957
family life, Guatemala, 838
Hopi, culture, 4516, 4545
Icarilla Apache, 1572
Kaska, sex behavior, 3166
Navaho, culture, 1192
personality development, 1191
New Mexico, witchcraft, 3179
Papago, religion, 1965
Pueblo, San Ildefonso, ethnology, 3185
- Individual & collectivism**, psychological aspects, 2709
differences, 1260, 2329
perception, set, reaction time, 100
in educational psychology, 1649
importance of, 674
in modern states, 4551
& political ethics, 4553
psychology, 2203
in Brazil, 2092
in Italy, 2093
values of, comparison, 1550
- Individuality**, in military adjustment, 862
vs. nationalism, German, 3174
- Inductive Reasoning Test**, 3767
- Industrial**, arts, evaluation in, 1289
films in vocational guidance, 1668
psychology (see also *Industry*), 2442
bibliography, 2771
National Institute of, 2005
resistance by industry, 4589(a)
as social science, 4629
relations (see also *Labor relations*)
bibliography, 2423, 2435
Great Britain & U. S., 1225
solvents, sensory threshold, 2138
- Industry** (see also *Labor relations*)
accident prevention, 2431
broadcasting in, & efficiency, 3214
& community, 1975
conference leadership, textbook, 1994
- consulting psychologist in, 853
counseling in, 2466
disabled worker, 2014
deaf, 236, 3892
efficiency, 2778
efficiency, hours of work, women, 4582
measurement, 2428
& psychiatric problems, 3706
executive, 252, 566
factory society, 1993
social system, strike, 2411
fatigue, measurement in, 3385
prevention, 867
forewoman, New Zealand, 570
grievance, displacement, 576
human relations (see *Labor relations*)
incentive system, 248, 2004, 3242
interpersonal relations, 1239
job placement, 868(a)
management, status organization of, 1984
principles, 2782
social organization, 1984
mechanical adaptability test, Purdue, 579
mental hygiene in, 871, 1605, 1606
morale, 1603, 4602(a)
monotony, relief, factors, 1240
music in, 1604, 1615
noise in, 3250
old age, work capacity, 3327
output & calorie supply, 1235
psychodrama in, 4108
psychological program in, 4589(a)
recreation in, 1607, 3221
rehabilitation, England, 1238
& school, common problems, 3249
shift, change of, 861
social factors, 2397
social organization in, 1610
social relations, 4631
as social system, 1988
strike, social factors, 2411
supervisor, evaluation, 572
leadership, 870
status, 573, 2783
tests, use, 2780
training, bibliography, 1361
use of neuropsychiatric patients in, 3714
use of tests by, 4599(a)
care, efficiency, 254
eye clinics, 2009
research, 2140
test, statistical analysis, 271
vision, 1614, 3256, 3709
weaving, deafness in, 3892
woman, 1224
hours of work, 4582
- Infant**, cerebral cortex of, 4241
day nursery care, effects, 2514
development, & environment, 1703(a)
descriptive cards, 312
method of study, 3513
developmental, diagnosis, 4408
scale, 1679
feeble-minded, diagnosis, 4444
feeding, psychological factors, 2050
growth, development, evaluation, grid technique, 331
intelligence, test, new, 624(a), 4661(a)
mental hygiene, Cornelian Corner, 2045
Negro, behavior development, 948
newborn, hearing in, 1775
restraint, reactions, 328
sucking response, 94
premature, feeding mechanism, 86
psychology, 922, 2511
sleep, dream, 2196
speech development, 936, 1176, 1178, 3312, 4410(a)
smiling as social response, 954
weight, & emotional disturbance, 2514
- Infanticide**, Eskimo, 1956
- Infantile dementia** (Heller) boy, case, 1074
- Infantile paralysis** (see *Poliomyelitis*)
- Inference**, mechanism & public speaking, 1586(a)
- Inferiority**-feelings, origin of, 4385
vs. injustice complex, 4373
- Influence**, of professional worker, principles, 2646
- Information**, inventory, military knowledge, 4600
value, distance, source, 218
- Inhibition**, in auditory nerve, 3891(a)
color sense, 376
- depression, & respiratory sensibility, 1473
nervous central, 2876
proactive, recognition, 2160
reaction, restoration by insulin coma, 1812
retroactive, extinction, reconditioning, 415(a)
intent & interruption, 4347(a)
interpolated learning, 69, 393(a), 706
reaction time as measure, 2932
& unlearning, 4328(a)
vs. repression theory, 3914
- Injustice complex**, vs. inferiority, 4373
- Insects**, development, group effect, 2739
- In-service training**, military psychology, 1101
- Insomnia**, & electrical activity of brain, 3839(a)
psychoanalytic interpretation, 2962
- Institut J. J. Rousseau**, 3629
- Institution**, child, intelligence, 3950
correctional, classification clinic, 2744
of detention, correctional psychology, 2758
penal, psychometrics in, 2754
subnormal girl in, 2742
- Insulin** (see *Shock therapy*)
& food intake, 4234
& visual threshold, 2126
- Insurance agents**, appraisal methods, 4099
job attitudes, 2776
- Integration**, concepts, in psychology, 1712
mental theory, 3789
in social behavior, 1174
- Intellect**, & effectivity in learning, 714
types of, & stuttering, 4001
- Intelligence**, 1038
as ability to learn, theory, 2937
& art ability, student, 1628
Berbers, 3169
brain lesion, leucotomy, 131
change with glutamic acid, 2944, 3474
& character, 2158(a)
child, adopted, 4371(a)
nursery school, 2515(a)
child, institutional vs. private homes, 3950
nursery school, 2515(a)
concept, 1424, 2150
crime, 221
development, discordant consistency, test scores, 4405(a)
distribution, child, Argentina, 3750
Russia & U. S., 4367(a)
students, India, 4162
electroshock, Army Alpha, 493(a)
emotion & test performance, 3498
& English achievement, 3281(a)
of epileptics, 3030
factor analysis (see *Factor analysis*)
factor theory, Spearman, history, 4369
functioning, vitamin B-complex, 84
high grade, testing, 2036
impairment, Shipley-Hartford Retreat Scale, 2494
inheritance, 4368
& maladjustment, factors, 2275(a)
measurement, research needed, 2485
& motor learning ability, 713
neurotic inventory, 159
occupational differences, 4367(a)
perceptual speed factor, 4363(a)
in prediction of college success, review, 3742
primitive peoples, review, 2381
of psychopaths, 3047
rating, handwriting, 500(a)
regional differences, 4367(a)
school child, 1935-42, 4645
social maturity, 184
as social problems, 3148
spelling &, 3763
& starvation, 4301(a)
stress conditions, & Rorschach validity, 2803
subnormal, in Naval personnel, 2777
superior, testing, 2036
survey (Tennessee), 1702
teacher estimate of, 3506
theory, developmental, 1421
& time of conception, 3473
verbal relations factor, 4365(a)
& visual acuity, 1802
vs. manual training achievement, 3281(a)
vs. vocation choice, high school student, 3230(a)
of woman, 2343
- Intelligence quotient**, & birth season, 4645

- change, mental deficiency, 491
in generation, 4364
& college aptitude test score, equivalence, 1877
concept, formula, 1312
constancy, 2034
diagnosis, feeble-mindedness, 472
effect of thyroid on, 945(a)
foster home children, 4371(a)
gain in, repetition, 1420
norms, 1309
Revised Army Beta vs. Wechsler-Bellevue, 1680
& socioeconomic status, 1334
Stanford-Binet, 1916, 1937, Arthur Performance Scale, 921
Intelligence tests & testing,
adult, 1315
Army Beta, revised, vs. Wechsler, 1680
Army General Classification, 629, 893, 2798
Arthur Performance Scale, 921, 4658
Binet, Bellevue & group, comparison, 309
1916-1937 & Arthur, 921
California, 3778
Coatsler, norms, 1309
critique, 1311
by drawing (Fay), 4178
group, Wechsler-Bellevue, prison inmates, 561
Heim test, 2036
history, 2493
Indian culture basis, 3289(a)
infant, 624(a), 1679, 4661(a)
Kuhlmann-Anderson, mental age, 311
Lahy, Ballard, comparative study, 306
Minnesota preschool, predictive value, 286
post-trauma, head, 3980
research, 1943-46, review, 3288
& school success, prediction, 1284
score, comparability problem, 1312
consistency, development, 4405(a)
correlation of, 4370
cultural influences, 204, 2933
deaf children, 3949
& emotional tension, 644(a), 928
social class, 322
variation during college, 3290(a)
Shipley-Hartford Retreat Scale, 627
& social facilitation, 1674
standardization, 2491
theory, 291
time appreciation, 305
& vitamin B-complex, 84
Wechsler-Bellevue (see Wechsler-Bellevue)
Intensity, of attitudes, measurement, 2717
Interest, 2146
academic, inventory, 891, 3774
Bible Institute student, 505(a)
& boredom in repetitive work, 1240
child development in, 1705
mathematics, school grade, 287
& educational development, 2148
inventory, academic, 891, 3774
Army activities, 4523(a)
& extrasensory perception, 1170
professed interests, 4610(a)
research, 1943-46, review, 3263
& learning, 1033, 1043
& mechanical aptitude, 4613(a)
method of study, 1636(a)
pattern, business teachers, women, 1277
& personality, 4613(a)
reading (see Reading Interest)
school marks, relationship, college freshman, 890
science, high school, 1636(a)
& vocabulary, 4613(a)
vocational, Clopton Inventory, 2028
differences, analysis, 2475
Inter-eyepiece distance, measuring apparatus, 3873
International, affairs, psychology in, 3674, 3681, 3682
behavior, of nations, 4060
Business Machine, & statistics, 989
cooperation, in social research, 3684
organization of social scientists, proposed, 3678
politics, psychology, 4060
understanding, & semantics, 3172
International Psycho-Analytical Association, branch societies, reports, 731
Internship, clinical, 1378, 2850
Menninger Clinic, 1379
Michael Reese Hospital, 1370
New York City, 1383
New York State program, 1375
rotating, 1384
student counseling, 1371
Vineland, 1373
Western State Psychiatric Institute, 1380
Worcester, 1382
Interocular distance, measuring, 1802
Interpersonal relations & parapsychology, 1065
Interview, board technique, officer evaluation, 4115
counseling, nondirective, blind, 285
test selection, 882
demonstration methods, 904
employment, standardized record form, 3233
in industry, 1610
initial, in social case work, 2686
measure of job performance, 4605(a)
methods, in case work, 4504
Industrial personnel, 3222
opinion poll techniques, 1942, 3648
in personnel selection, value, 4103
pre-test, improving, 3653
for selection of salesmen, 3713
selection, pilots, 1989
self-inventory, 3121
significant factors, nutrition, 4033
survey, federal government, 521
teacher-parent, methods, 3125
terminology, 114
Interviewer, bias, in opinion polls, 3648
training, psychodrama in, 3813
Intoxication, water, effect on EEG, rat, 2868
Introversion, & schizophrenia, 1864
Intuition of psychotherapists, 1097
Invalidism, psychosomatics, 1888
Inventory (see also Interest)
neurotic, form of item, 4039
social opinions, predictive value, 524(a)
Inversion (see Homosexuality)
Involuntional melancholia, social adjustment, 803(a)
Iowa State College Driving Research Laboratory, 3251
Irish vs. Jew, alcohol, 4529(a)
Ishihara Test, industrial use, 2429
validity, 4263
Isolation, child, evacuee, 2517
girl, case, 2208
Isopropyl alcohol, as anticonvulsant, 2590
Italy, individual psychology in, 2093
Item, analysis, analogies test, 1683
KG index of item validity, 2831
Merrill-Palmer Scale, 4366(a)
method, Flanagan, vs. Lawrie, 3799
phi coefficients, 2832
reliability of, 1676
& test validity, 1308
placement, Wechsler-Bellevue, 628
selection preschool test, prediction, 286
James-Lange, theory, critique, 3913
Janet, Pierre, obituary, 4224
Japan, aviation training methods, 239
culture, 2371
psychological testing in, 422(a)
Japanese, -Americans, ability, interests, high school, 3177
opinion poll, 1199
relocation, effects, 4054
family adjustment, 3164
social problems, 4539
attitude toward occupation, 827, 1189
in Hawaii, acculturation, 2379(a)
language learning, success, prediction, 2796
military training devices, 582, 586
night vision, 378
in U. S., 1944
Jealousy, 1859
child, 959
sibling, case, 3962
Jew (see also Anti-Semitism, Judaism)
attitude toward religion, 4549
education, personal values, 2725
psychological problems, 2728
& social adjustment, 2721
& Gentile, attitude effects on anti-Semitism measurements, 3161
clannishness, 1556
intermarriage, 4058
Jung's types in, 4379
ritual, psychoanalysis, 539
social adjustment & Jewish education, 2721
vs. Irish inebriety rate, 4529(a)
Jicarilla Apache, culture, 1372
Job, analysis & accidents, 2431
film, strip, 4604
mechanic, 4114
older worker, 2001
attitudes, of insurance personnel, 2776
disabled worker, efficiency, 2778
evaluation, abbreviated scale, 237, 580
Navy, civil service, 3232
point scale for, 3215
rating method, 1617
reliability, 4595(a)
information, test score, age, education, worker, 901
test, validation, 238
performance, measure, by interviews, 4605(a)
testing, 302
phobia, 2678
placement, 868(a)
AAF, 1237
of disabled, 2014
handicapped, 1226
use of school record card, 3731
qualification inventory, Kuder Preference Record, 1295
requirements, mental hygiene, 2436
vision, 1620
satisfaction, technique for indicating, 3724
seeker, & employment agencies, 1236
social factor, 2397
Johnson, Alexander Bryan, biography, 2927
Johnson, Samuel, & Bishop Berkeley, 2853
Johnson, Wendell, biography, portrait, 2553
Jones, E., portrait presentation, address, 664
Journal of Consulting Psychology, history, 3368
Journalism, aptitude, Minnesota test, 3287
scholastic achievement, prediction, 3261
Journals,
bibliography, industrial psychology, 2771
penology, 1982
Korschach Research Exchange, 1937-46, 2689
new, abstract, industrial training, 1361
ophthalmology, 2839
animal psychology, 2842
applied psychology, 2942
child psychiatry, 3808
general, 353, 1729, 2938
group therapy, 2086
opinion research, 2543
psychiatry, 2841
psychotherapy, 2082
social psychology, 3806
Judaism, mother goddess, 517
paternalism in, & anti-Semitism, 1952
Judd, Charles H., obituary, 2546, 2845
Judge, rating ability, personality factors, 512(a)
Judgment, affective, modification, 2161
loudness, time error, 2576
modification of social factors, 2166
of nationality origin, 1565
opinion poll, limitations, 187
practical, Cardall Test, 2492
psychology, criticism, 404(a)
psycho-physical, scale & practice, 3406
in rating, & halo effect, 4378(a)
value, relativism, 197
Jung, C. G., & Freud, 348, 4200
psychological system, 2091
theory, 3361
psychology of religion, 3673
& Yoga, critique, 3791
Juvenile delinquency (see Delinquency)
employment service, Great Britain, 883
Kaiser Wilhelm Institute for Arbeitsphysiologie, program, 859
Kangaroo, adaptation to physical environment, 2954
Kappers, C. U. Ariens, obituary, 354, 1364
portrait, 354
Karma, eternity, concept, 979
Kaska Indians, sex behavior, cultural dynamics, 3166

- Kaysmeier, B., autobiographical notes, 3974
 Kelly Constructional Ability Test, 3904
 Kent-Shakow Formboard Series, Grove Modification, reliability, 2804
 Kenya, Africa, race relations, 3666
 Kindergarten, mental hygiene project in, 3589
 reading ability, test, 300
 Kinesthetic, receptors, & vertigo, 2135
 sensation, in flying, 3840
 King Lear, psychoanalysis, 836
 Kinship, West Africa, 1582(a)
 Kinzer-Horrocks Spatial Relations Dexterity Form Board, 4663
 Kilton, H. D., autobiographical note, 13
 Klein, Melanie, psychoanalytic theory, 2187
 Knowledge, fact, principle, application ability, 604
 military, test for, 4600
 of results, in range finder training, 3943
 student, gain measurement, 299
 subjective, Thomistic theory, 4196
 theory, fact vs. value, 4182
 Köhler, Wolfgang, portrait, 1369
 Kohs Block Design, vs. Rorschach, color responses, 4391(a)
 Kopas Wage Earner Battery of Tests, reliability, validity, 2451
 Kuder Preference Record, 1286
 interest fields per D.O.T., 3229
 reliability of, 885
 statistical analysis, veterans, 3244
 validity, 2463
 vs. job qualification inventory, 1295
 vs. Strong inventory, 4610(a)
 Kuhlman Anderson Test, M.A. equivalents, 3283
 Kwalwasser-Dykema tests of musical talent, validity of, 3738(a)
 Kymograph, convertible, 3794
 records, copying, 2826
 Labor, industry human relations, 1602, 1987, 2015, 2774
 & communication, 1613(a)
 method of study, 1610
 research, 2437
 leader, social conflict, 2391
 management relations, 575, 852, 1234, 1995, 2440
 conflict, 1995
 problems, 2432
 strike, 2411
 in opinion polls, question analysis, 2363
 relations, audit, 2440
 & community, 1975
 factory social organization, 1993
 in Hawaii, 4594
 incentive plans, 3242
 & industrial psychology, 4629
 & industrial society, 3225
 morale, 1603
 pooled judgments in, 3235
 psychodrama in, 4108
 research needs, 229
 social relations, 3225
 turnover, 850(a)
 union, community relations, 2008
 unrest, psychological reasons, 3241
 woman, married, 569
 Laboratory, psychological, Harvard University, 4220
 Labyrinth, after-sensations, secondary, 4286
 asynchrony, and motion sickness, 3403
 innervation, 2135
 reflex and vegetative nervous system, 1838
 and vertigo, 2135
 Lactic acid, effect on depressive states, 3034
 Lamarckianism, 1342
 Language, arts, composition, writing, 1669
 personality, integration, 1536
 understanding, measurement, 1268
 brain lesion, 1468(a)
 communication, social psychology, 4362
 in cross-national communication, 3172
 development,
 child, 4427
 in triplets, 1560
 disorder, causes, child, 143
 English, sentence structure, student disability, 601
 vs. native, in Indian Education, 4164
 & epistemology, 4361
 & hand dominance, 1434
 Japanese, learning, prediction of success, 2796
 & mental development, 4427
 metaphorical, infantile autism, 942
 philosophy of, 2927
 psychology of, 1551, 2340, 2358, 4325
 requirement, Ph.D. degree, 3372
 rhythmic phrases, perception of, 3211
 & science development, 1709
 secret, child, case, 329
 semantics, 2342
 & sense data, philosophy, 2818
 study, use of birds, 4324(a)
 symbolic, in science, 3945
 & thought retention, 1811
 & transposition behavior, 1037
 unconscious, dream content, 446
 Lapeer State Home, program description, 3012
 Larynx, ulcer of, & speech disorder, 3584
 Latent period, & intensity of conditioned reflex, 3940(a)
 Laterality, & reading, achievement, 2017(a)
 reversals, 1652
 test for, Harris, 4662
 Laughter, 1131
 patterns, theater audience, 1540(a)
 Law, abortion, psychological diagnosis &, 2685
 child, legal status, 3305
 court clinic, function, value, 2419
 of effect, & ego-psychology, 1033, 1041, 1043
 lie-detector, legal status, 3201
 penal code,
 culpability, mental disorder, 220
 delinquency & psychiatry, 842
 & psychiatry, 1220
 psychological, concept, 2064
 traffic, offender, 2766
 vs. sociology, criminological concepts, 2768
 woman, government, attitude, 209
 Laying, rhythm, artificial, hen, 4302
 Leaders, age of, 1563
 function in boys groups, 3640
 girls, characteristics, 3489
 group, identification with, 3641
 selection methods, role playing, 3720
 trade union, social conflict, 2391
 types, personality, characteristics, 4567
 Leadership, age, 532(a)
 factor, 1563
 & anxiety, combat airmen, 3646
 Army, developing in, 4066
 camp, adult, child relations, 3314
 evaluation, 3304
 college women, 4514
 criteria, establishment of, 4517(a)
 discriminatory, effect, 2410(a)
 & interest in social problems, 1592
 military, manual, 4603
 officer attitude, 2394
 & race relations, 2374
 in religion, 4603
 review, 1936
 sociometric tests for, Army, 3150
 supervisory management, 870
 of teacher in classroom, 3748
 training manual, 4603
 program, 2409
 psychodrama in, 3644, 4051
 Lear, E., Ilmericks, 540
 Learning, adult, auditory presentation, 2153(a)
 affective, 714
 & effective judgment, 2161
 attitude study, methodology, 530
 concentrated vs. distributed, theory, 1039
 concepts of, 1042
 continuity vs. non-continuity theories, 4331(a), 4342(a), 4346
 curve, flying, 402
 rotary pursuit, constant, 4326(a)
 curves, combining, 2164
 delayed, reward reinforcement in, 1429
 detour behavior, rat, 4350(a)
 discrimination, effect of electro-shock, 1815, 3937
 monkey, 409(a)
 response transfer, 4341(a)
 repetition in, 4334(a)
 distraction, "spread of effect," 66
 dynamics of, 1253
 educational concepts, 1252
 effect of hypothyroidism, rat, 1833
 electroshock, rat, 399(a)
 equation, errors, vs. reaction potential, 3469
 evaluation of, 1035
 excitatory potential, Hull theory, 2943
 expectancy theory in, 4354(a)
 field differentiation theory, test of, 4352(a)
 food preference, rat, 3926
 "freezing" behavior, rat, 1577
 gradients in, 2925
 group experiment, 2584
 guessing-hypothesis, one-trial method, 4353(a)
 heredity, 400
 inhibition (see Inhibition, retroactive)
 intellectual and affective, 714
 interference, meaningful similarity, 68
 inter-trial responses, value, rat, 4358(a)
 knowledge of results, range finder, 3943
 latent, pretraining, maze performance, rat, 710
 theory of, 2935
 law of effect, rat, 395(a)
 maze (see Maze learning)
 methods of presenting material, effect, 4335
 mirror tracing, interference, 707(a)
 motivation, retention, rat, 406
 motor, curves, & task difficulty, 2929
 gross body skills, 2922
 & intelligence, 713
 reminiscence & rest periods, 4339(a)
 Negro vs. white, 593, 1262, 1306
 nonsense syllables, 2160
 one-trial, spread of effect, 4353(a)
 perceptual, re-enforcement in, 2587
 place, anticipation and, rat, 4327
 practice distribution and, 2149
 psychomotor test, pilot training, 419(a)
 in psychotherapy, 3992
 rate, difficulty, nonsense syllables, 67
 measurement, synapse, dog, 70
 physical activities, college woman, 2464(a)
 reaction latency vs. reinforcement, 3465
 reaction time, position, shape, color, air-plane controls, 592(a)
 reading, perceptual factors, 3464
 reinforcement, rat, 708
 response, altering stimulus, 4356(a)
 & irrelevant drive, 4355(a)
 rest period, 416(a)
 retention, theory, 1040
 school problems, 4657
 serial, isolation, response, Thorndike effect, 71
 verbal, punishment, response variability, 417(a)
 spatially opposed responses, rat, 3931
 stages of, 898
 statistical criteria, 1036
 tests, 3346
 stereo-trainer, effect of break, 3876
 temporal aspect, 3466(a)
 textbook, 403
 theory, 1033, 1041, 1043, 2156
 eclecticism, 398(a)
 electrical analogue, 1419
 medieval, 2448
 semantics, 407(a), 4201
 tracking, with knowledge of results, 4349(a)
 transfer (see Transfer of training)
 transposition (see Transfer)
 trial and error, distributed practice, 2925
 success, failure, effect, 2157(a)
 theories, 1044
 & understanding, 1251
 unlearning, hypothesis and retroactive inhibition, 4328(a)
 verbal spread of effect, 408(a)
 word, remedial reading, 273
 Legibility, L. C. printed catalogue cards, 1985
 newsprint, book print, 386
 leading, 2791
 type, & blinking frequency, 703
 faces, 1667
 illumination requirements, 2899
 & vibration of material, 4621(a)
 Letter writing, personality, case, 1152
 Leonardo da Vinci, psychosexuality, 2509
 Leucotomy (see Lobotomy)
 Levant, racial psychiatry, 144
 Levy Movement Cards, response distribution, 4401(a)
 Lewin, Kurt, obituary, 2548, 3360

- Liberalism vs. conservatism, attitude analysis, 2357
- Library, autonomous groups in, 1214
catalog cards, legibility, 1985
classification, 2541, 2837
college, reading clinics, need, 2792
personnel, mental hygiene, 2785
skill, predictive value for scholarship, 1304
- Lie detection, legal status of evidence, 3201
methods, 2415
of questioning, 4080
- Life, animate & inanimate matter, 974
meaning of, contemporary theory, 4185
periods social institutions, role, 182
satisfaction, achievement of, 4320
- Light, & fish movements, 3918(a)
handbook, 4280
perception, quanta theory, 1804
scattering, in optical fire control instruments, 1015
stimulation, & alpha rhythm, 1742
stimuli, & cortical electric responses, 1762
terminology, 356
ultraviolet, dark adaptation, 62
white vs. red, and visual acuity, 2127
- Limit, of work, human, 1840
- Linear functions, of cell proportions, 4216
- Lip-reading achievement, measurement of, 3760
- Lissajous figures, 1402
flicker frequency & 2569
reversible perspective, 3414
- Literature, appreciation, child, 960
Benito Pérez Galdós, psychology of, 2971(a)
Camus, Albert, *The Stranger*, 3155
characters, choice, personality indicator, 4396(a)
color in, review, 2907
Don Juan, personality, 1529
Dostoyevsky, *Peasant Mary*, 3153
drama, nursery rhyme, psychoanalysis, 447
dream psychology, anthology, 2602
fiction, *Frenchman's Creek*, 4581
magazine, ethnic groups, differential treatment, 183
Hölderlin, poem analysis, 791
King Lear, psychoanalysis, 836
Lear, E., limericks, 540
Mr. Sludge the Medium, 1061
psychological concepts, O. W. Holmes, 2200
difficulty of, 4194
reading skills in, 1643
sociological, verification, measurement, 2718
The Tempest, psychoanalysis, 836, 1057
value-, analysis of, 4399(a)
- Liturgical music, 823
- Lobotomy (see Lobotomy)
- Lobotomy, 131, 1430
behavior results, 761
child effects, 2656
delayed response following, 1430
discrimination, monkey, 397(a)
& fusion frequency, 4262(a)
& mental depression, 4028
personality changes after, 3095
post-schizophrenia, creativeness, 3038
psychosis, results, 3612
review, 2265
schizophrenia, 1128, 2254
as therapy, 1120, 2265, 4487, 4490
use, motives, 452
- Localization, auditory, neural relations, 3448
in cerebral cortex, 3399
sound, with vestibular defect, 3886
- Locomotion, amoeba, theory, 2589
- Logic, breakdowns and conflict, 4437
defensive argument, 4360
function, intelligence test, Lohy, criticism, 306
hypothesis concept, 1247
of scientific method, 1719
semantics, method, 2716
textbook, 1034
- Lotze, Rudolf Hermann, 2550
- Loudness, measures of, decibel, phom, 2136
noise discrimination, test, 695
- Love, & temperament, artists, 3901
types, philosophy of, 4198
- Lumbar puncture, reactions to, psychosomatics, 1887
- Machine design (see Design engineering psychology)
- Machine scoring, test answers, 3770
- MacQuarrie Test for Mechanical Ability, engineering selection, 2439
factor analysis, 2799
norms, 914
validity, 1678
- Magic, history, therapy, treatise, 106
- Magnesium, deficiency, & audiogenic seizures, rat, 4310
& convulsions, rats, 4233
- Magnetism visual sensations induced by, 4251
- Malagasy ideas, of Caucasian, 1564
of heart, 4535
- Malaria, mental disturbance, 1129
- Malingering, deafness, threshold measurement, 127
& military psychiatry, 797
psychiatric aspects, 2674
& psychoneurosis, 3551
- Mammals, brain weight and body weight, relation, 2863
respiration, rate, temperature, 87
- Man, culture & science, 4197
evolution, textbook, 1047
psychoanalytic study by women, 2601
social relations, study of, 1716
socio-ethical theory, 4197
- Mania, acute, electroshock therapy, 3115
- Manic-depressive psychosis, electroshock therapy, case, 3599
depression in, 2622
prognosis, 2623, 2626
shock therapy, 2253
sleep, electro-encephalogram, 1867
social adjustment and environment, 757(a)
therapy, blood transfusion, 1820
- Manual of Child Psychology, critique, 2805
- Manuals, bibliographic style, 1360
counseling, 899
graphology, 1530
marriage counseling, 2301
occupations, 612
study methods, 1658
time & motion study, 2428
vocational guidance, 1301
- Maps, in propaganda, 1933
- Marc-Wogan, Konrad, *Theorie der Sinnesdaten*, 2567
philosophy, critical review, 2852
- Marhuana, Army adjustment, 504, 2322
- Markoff chains, 3353
- Marriage, adjustment, factors in, 4550
prediction of, 177, 3191
time required, 2734
child wife, concept, 2392
& college achievement, veterans, 2470
counseling, 1965, 1968
& divorce, 4546
family agency, 1967, 2735, 3192
& family disorganization, 1972, 2385
manual, 2301
psychodrama in, 4061
in social work agency, 1974
teacher in, 2387
technique, 2737
cultural pattern, America, 522
guide, 1966
inter-, American community, 3188
Jew & gentile, 4058
mate, choice of, ideal, actual, 550
parent image, 1584
problems of, anthropology, 3190
psychology, 1545
socioeconomic status, reproductive pattern, 2386
textbook, 2393
vs. singleness, women teachers, 1641(a)
- Marshall Islanders, customs, 4056
- Masculinity-femininity, in body build, 1818
of musical compositions, 2645, 3213
psychology of, 3137
word association scale, 825
- Mashbury Serial Coordination Test, 1832
- Masochism, paranoia, 453
- Mass, persuasion, War bond drive, 2406
psychology, anti-Semitism, 1963
suggestion, history, politics, 106
- Masturbation, fantasies, case, 1858
- Mathematics, ability and music, 1427
achievement, prediction, 897
child, interest, school grade, 287
- computation, decimals, college freshman, 280
- geometry, achievement prediction, factor analysis, 282
reading skills in, 1643
understanding in, evaluation, 1270, 1300
- Mating, behavior, wasps, 3905
- Matricide, schizophrenic, case, 3545
- Matter, animate, inanimate, continuity, 974
- Maturation, & acculturation, 1552(a)
age, sex, motor performance, 429(a)
cultural patterning, primitive, 1569(a)
vs. growth rhythms, 3664
girl, 1332
- Maturity, of aspiration, child, 2500(a)
emotional, & delinquency, 4072
mental, criteria of, 2822
problem solving in, effect early experience, 4336(a)
psychology of, 2054
- Maze learning, anticipation, 1807
choice points, 3931
compound trial-and-error, 3469
effect of electroshock, rats, 3939
finger, & intelligence, 713
first trial success, 4352(a)
goal gradients & retroactive interference, 4340(a)
inheritance, running ability, rat, 4368
interpolation, retroaction, time interval, 706
orientation, 2165
pretraining, rat, 710
rat, 708, 1808
reinforcement, number of, rat, 4338(a)
retroactive interference, 4340(a)
& sleep lack, rat, 1828
social gradients, 4340(a)
steroid hormones & rat, 3941
T-maze, reinforcement, 4338(a)
transfer of place learning, 2168
- Mean, distribution of, for Pearson curves, 3358
P.E., accuracy, 3344
- Meaning, theory, 1344
word, psychology of, 1587
- Measurement, in educational psychology, 2080
individual, determination, 1354
of personality, 2316
personality, review, 501
psychological change, military service, 857
of results of teaching, 3739(a)
social conformity, method, 1219
- Mechanic, psychological characteristics, 4114
- Mechanical, ability, prognostic test, 4668
test, MacQuarrie, norms, 914
adaptability, test, Purdue, 579
aptitude vs. interests, 4613(a)
- Medical psychology, advances in, 645
psyche-conception, 963
- Medicine, aviation, German, review, 4148
education, mental hygiene in, 4480
influence in history of psychology, 3810
psychology & 657, 3990
student, selection, 2770, 4650(a)
- Medicolegal, bibliography, 3205
EEG, relations, 2974
homosexuality, 3158
- Melancholia, convalescence, euphoria, 479
involuntal, social adjustment, 803(a)
& respiratory sensibility, 1473
- Memory, aids to, 1422
effect electroshock on, 2938
hierarchy of 3 types, 2923
infant, 1698
learning, theory, 1040
loss, personality study, *Lückenschadel*, 151
obsessional, case, 1687
& occasionalism, 2525
pathology of, 2923
& personality factors, 1151
as personality function, 2934
in psychomotor epilepsy, 3020
reminiscence, interpolated activity, 412(a)
scale, Wechsler, alternate form, 919
& school achievement, 3938
span, school children, India, 3930
verbal, brain lesion, 165
- Memory-for-Design Test, scoring, 3022
- Men, unmarried, sex behavior, 3152
- Menarche, & strength, 3501
- Menninger Foundation, clinical psychology, 2282
internship program, 1379
research work of, 3379

- training program, 4228
- Menopause**, criminality during, 4573
- mental disorder in, 1485
- neurotic symptoms, 2638
- psychological reactions, 4474
- radiation, personality changes, case, 3143
- Menstruation**, amenorrhea, psychogenic, 1123, 2643
- dysmenorrhea, pain threshold in, 692
- psychosomatic aspects, 1483
- sterility, psychosomatics, case, 473
- tension, ionic balance, 3822
- Mental**, ability, distribution of, 211
- evolutionary selection, 3782, 3948
- growth, college student, 2930
- high school student, 597(a)
- occupational level, college student, 4128
- primary, factor analysis, 2079
- activity, electric phenomena, brain, 3839(a)
- age, adult, 1315
- change, hypnotic regression, 448(a)
- concept, critique, 1309
- aspects of analgesics, 2106
- anesthetics, 2600
- development, consistency, 4405(a)
- factors vs. physical, 1708
- facts, theory, 1346
- fatigue (see Fatigue, mental)
- function, glutamic acid, effects, 2944
- sleep, 425
- stability, intelligence test, 286
- growth & congenital blindness, 1692
- health (see Mental hygiene)
- integration, *pars pro toto*, 3789
- maturity, concept of, 2822
- meaning of, 4192
- rigidity, ethnocentrism, correlation, 542(a)
- symptoms, ovarian hypo-function, 3995
- traits, variability, 1810
- work, & vitamin B deficiency, 4295
- vs. law of exercise, 2947
- Mental deficiency**, 2211 (see also Feeble-mindedness)
- care, child, 489
- & child behavior problem, 1112
- congenital eye defect, pedigree, 697
- diagnosis, 2616
- environment as etiologic factor, 1703(a)
- Finland, frequency, 1104
- high school student, 1848
- Illinois plans for, 478
- intelligence test, 491, 630(a)
- & isolation, case, 2208
- Porteus Maze tests, 2495
- rehabilitation program, veteran, 465
- research, 145
- social adjustment, 1115
- program, 464
- Mental disorders** (see also Psychoses, Schizophrenia, etc.)
- adolescents, 1870
- in adult, developmental etiology, 1856
- age, old, 153
- & alcohol, 1146, 2293, 2976
- & allergy, child, 1089
- Army discharge, 2207
- officers, British, 2215
- Bing-Kretschmer theory, 3978
- & body build, 4439
- brain, lesion, spatial disorientation, case, 146
- tumor, 368
- Cervantes' description of, 3526
- child, 1696
- & socioeconomic status, 1071
- & training, 4424
- classification clinic, in correctional institution, 2744
- crime, culpability, social danger, 220
- criminals, 1221
- cultural factors, 1849, 2615
- diagnosis, multiphasic, 481
- Wechsler-Bellevue, brain lesion, 471
- early manifestations, 126
- EEG, review, 2869
- environmental factors, 1871
- enzyme deficiency, 4434
- distribution, brain, 2617
- etiology, moral conscience, 125
- family care, review, 3104
- & feeble-mindedness, 149
- Finland, frequency, 1104
- handwriting in, 3035
- heredity, 1464, 2979
- hospitalization, 129, 3098
- induced insanity, concept, 137
- intelligence, time appreciation test, 305
- libido &, 3528
- lobotomy, effect, 1120, 3612
- in malaria, 1129
- mediaeval beliefs on, 3517
- in menopause, 1485
- military, 1857
- hospital, social work, 115
- Negro soldiers, isolated, 2989
- trend, 1905
- monomania, psychiatry, medicolegal, France, 150
- mortality, 1469
- murderer, criteria, 1977
- narcosis, 454
- occupational therapy, history, 3093
- philosophy of, 2973
- physical pathology, review, 2982
- prisoner of war, 1107
- problems, 1100
- rehabilitation, 2651
- research, AAF, 3531
- social case work, with families, 2258
- limitations, 2682
- soldiers, Indian, 2613
- statistics, Norway, 1871
- theory, history, 1465
- treatise, 476, 2610
- in twins, 483
- use of patients in industry, 3714
- V.A. program, 2964, 3117
- veteran, & civilian adjustment, 3529
- of Vincent Van Gogh, 4091
- & vitamin deficiencies, 116, 3521
- vocational rehabilitation, 3710
- woman, rehabilitation, 1890
- Mental hospital**, admission policy, Western State Psychiatric Institute, 1916
- criminals in, social factors, 2745
- epileptic child, management, 2648
- group psychotherapy, patients' reaction, 2667
- mortality in, 1469
- music therapy, 1080, 1134
- overactive patient, 1898
- relation to church, 1910
- social adjustment, sociometry, 1206(a)
- Virginia, 748
- women parolees, 5-year study, 1890
- Mental hygiene**, 778
- of alcohol addiction, 3056
- Army, chaplain's role, 2289
- atomic age, 821
- audio-visual aids, 2294
- camping, 3310, 3320
- child behavior problem, 3295
- child,
- preschool, 319
- psychiatry, 327
- training, 3591
- classroom teaching, 3264
- clinic, Veterans Administration, psychologist role, 2281
- counseling, old age, 568
- description, 2302
- & disabling diseases, 3124
- in education, 1045, 1278
- history, 2278, 3592
- industry, 871, 1606
- infant, Cornelian Corner, 2045
- inventory, test, 3779
- & juvenile delinquency, 3199
- law for, 1510
- of library personnel, 2785
- military, program, 1908
- national planning, 1906
- problems, 1081
- objectives of, 3120
- of old age, 568, 2288, 3515, 3972
- in prisons, 4088
- problems of, 3592
- program, Virginia, 748
- project in kindergarten, 3589
- reading, 880
- schools, 1912
- bus, 3282
- classroom, 3264
- & social discipline, 4478(a)
- social hygiene &, 2308
- statistics in, 4477
- teaching, in medical school, 4480
- visual aids, 4479
- test, Mental Health Analysis, 3779
- training, clinics, standard for, 1903
- trends, 2218
- veteran, 466, 777
- woman, stress, 779
- Merrill-Palmer Preschool Test, item analysis, 4366(a)
- Metabolism, & boarding behavior, rat, 4321(a)
- Metaphorical language, infantile autism, 942
- Metaphysics, function of, 662
- Methedrine, effect on fatigue, 3454
- Methemoglobinemia, visual threshold in, 1397
- Methods**, analysis
- data, sociometry, 2362, 2366
- longitudinal, personality, 2313
- news, 2349
- personal document, 2070, 4549
- rumor, 2339
- scale, 2534, 4052
- in art criticism, 2703
- biographical, value analysis, 4399(a)
- board interview, officer evaluation, 4115
- clinical (see also Diagnostic methods)
- case record analysis, 2360
- manic-depressive psychosis, 1820
- reports, 995
- research, 3520
- in science, 3338
- in social psychology, 1948
- employee rating, 2434
- employment questionnaire, 2445
- evaluating job satisfaction, 3724
- film analysis, national characteristics, 2375
- group guidance, 2269
- in history, 3340
- machine scoring, 2074
- measurement,
- advertising results, 4632(a)
- blurring, retinal image, 2116
- cochlear movement, 3436
- code speed, 4344
- eye rotation, 4261
- flying skill, 3942
- interocular distance, 1802
- monocular visual acuity, 2117
- motor ability, 2461
- national growth, 3650
- physical condition, blood reduction, 3389, 3390
- psychomotor, 2461
- radio audience, 4628(a)
- reaction time, binocular fusion, 4256
- social conformity, 1219
- value, 1550
- verification, sociology, 2718
- vibratory sense, 4247
- opinion polls, 1179, 1181, 2720
- interview, 1942
- panel in, 3652
- survey, 1944
- photographic, check flight performance, 3944
- cochlear movement, 3441
- pooled judgments, 3235
- profile, personality, 2320
- project-research, 1190
- presentation, learning material, 2153(a)
- rating, personnel, 2072
- psychophysics, 2075
- sampling, selective, 3352
- scientific generalization in, 2827
- problem in, 661
- & psychology, 1719
- universality of, 4204
- semantics, 2716
- situational appraisal, selection, 4111
- social research, project-research, 1190
- psychology, 1947
- theory, 4516
- stimulus presentation, pitch sensitivity, 4287
- of study, cultures, 4055
- thematic apperception, 1957
- fetal movement, mother estimate, 3497
- infant development, 3513
- rehabilitation, repentance in, 2748
- sex attitudes, 2347
- social relations, 1320
- test construction (see Test)
- therapy (see Psychotherapy)
- vision training, 2574

- Metrazol, effect on visual acuity, 3857
threshold, EEG, 688
Metropolitan Readiness Tests, 2498
Mexico, problem child, 4498
school child, physical examinations, 4647
vocational guidance in, 4608
Mescaline, effects of, introspection, 1437
Michael Reese Hospital, internship program, 1370
Michigan, psycho-clinical services for blind, 3633
Microphone, throat, description, 3337
Middle East adaptometer, 1002
Midwestern Psychological Association, proceedings, 1946, 359
Migraine, 112, 1111
Migration, animal vs. human society, 4512
bird, theory, 1839
& crime, 4571
fish, theory, 2591
vertebrate animal, 82
Military (see also Army, Navy, Veteran, etc.
Only topics having unique military
reference are included here; military
aspects of other topics, e.g., vision,
psychiatry, or crime are included under
those headings)
adjustment, habit change, 862
lecture outlines, 590, 591
classification (see Personnel, military)
equipment (see Design engineering psychology)
government, selection of officials, 841
knowledge, test for, 4600
personnel (see Personnel, military)
psychiatry (see Psychiatry, military)
training (see Training)
Military psychology, 858
clinical
British Army, 486
post-war Army, 4041
Navy, 4037
training, 3382
combat judgment, 4066
Germany, World War II, 4622
history, World War II, U. S. 1731
human engineering section, 864
in-service training, 1101
Maryland Conference papers, 4140
Naval aviation program, 1732
personal inventory, U. S. Navy, 1169
personnel, post-war, 4112
program, post-war, 4098
post-war, areas of interest, 4142
problems of, 3246
professional problems, 2556, 2558, 3383
research, by civilians, 4134, 4149
selection, 854
survey, 336
training, evaluation, 1739
Mimicry, deceptive value, animal behavior, 78
Mind, body, theory, & psychosomatics, 3334
in others, knowledge of, 673
theory, 1344, 1428
Minnesota Aptitude Test, Journalism, 3287
Clerical Test, norm, 4095
Rate of Manipulation Test, 5769
college men, scores, 3916
correlations, 4177
effect of bonus, 3915
Minnesota Multiphasic Personality Inventory,
Braille edition, 2690
differential diagnosis, 481
disease responses, 4505(a)
group vs. individual forms, 3488
homosexuality, 4432
K correction for, 4501(a)
validity, 511
responses, effect of vocation, 1534
scores, hypoglycemia-neurosis, 3049
scoring method, Keyport, 509
short, 171
simulated response, 3140
subtle vs. obvious keys, 4400(a)
Minority groups (see also Race)
answer to prejudice remarks, 4531(a)
anti-discrimination legislating, utilization
of, 4544(a)
attitude toward youth, 3667
behavior of, 2410(a)
crime rates in, 4087
Navaho, 1192
problems, research on, 1946
U. S. stereotypes, magazine fiction, 183
Mirror tracing, interference, 707(a)
test, social adjustment, 1167
Mirror writing and congenital word blindness,
4649
of twins, 3462
Modeling, child, figure copying, dimension,
1336
Moll, 3902
"Mom" in mother-child relationship, 796
Money, habit, child rearing, 835
size perception, social factors, 2107
spending as value, 1550
Mongolism, diagnosis, 1459
endocrinism, 458
personality of, 3013
psychosis in, 3013
Monkey, cage for, 3793
color blindness, 4274
delayed response, 1430
discrimination learning, 409(a)
lobectomy, discrimination, 397(a)
nerve, cutaneous distribution, electrical
skin resistance, 421
neuro-psychology, aphasia, 357(a)
Monomania, psychiatry, medicolegal, France,
150
Monotones, & maladjustment, 784(a)
personality, adjustment, 3590
Montessori, Maria, portrait, 1630
school, description, 1630
Mood, origin of, remote, 4312
Morale, 2345
analysis of, 1595
British soldier, 1616
civilian, Hawaii, 1944, 4548
of combat aviators, 4045
employee measuring, 2438
in industry, 1603
military, complaint, selectee, 212
of naval noncombatants, 1595
Navy, factors, 2276
& results of therapy, psychoneurosis, 3560
system of, 2825
Morphine, addiction, 804
& psychosis, 3036
Mortality & mental disorders, 1469
Moss Social Intelligence Test, statistical analysis, 3162(a)
Mother, activity of, & fetal movement, 3497
child, relations, 4443
TAT patterns, 2331
desertion, child's fear of, 3504
employment, family adjustment, 190
goddess, Judaism, 517
& infant feeding, breast, 2050
nursing, neurotic problems, 4467
role in child maturity, 796
social case work with, cerebral palsy, 2255
social status, attitude, parenthood, 523
symbolism, water, legends, 441
unmarried, case work, 1217
Motion, apparent visual, reversals of, 1402
bodily, & centripetal force, 2946
object in, vision &, 2572
photography, in flight training, 2013
study, textbook, 2428, 2433
visual acuity, peripheral, 4273
Motion sickness, air, preventatives, 3531
& benzadrine, 3924
causes, dog & man, 2952
central nervous mechanisms, 3897(a)
drug effects, 3906
EEG, 3924
epinephrine, effects, 4299
labyrinthine asynchrony &, 3403
prediction, selection, 225
prevention, atropine, 1450
drugs, 1449
questionnaire indications, 3899
shipboard, factors affecting, 2958
susceptibility frequency, 3925
psychological, 3534
susceptibles, physiological tests on, 3906
Motivation, 2186
altruistic, 725(a)
in education, 1055
evaluation &, 2583
expression of, TAT vs. autobiography, 2318
fatigue, stereoscopy, 59
indicator test, 3768
learning, retention, rat, 406
& life success, 4320
organismic theory, 3786
in perception, theory, 2587
organizing factor, 2107
physiological basis of, 4315
psychoanalytic theory, 1844
& rate of manipulation test scores, 3915
& resistance, pilot, 2171
Sondli theory, 4206
theory, 1350
Motor, ability, college student, 3916
learning rate, 2464(a)
measurement, method, 2461
Negro vs. white girls, 4526
behavior, readjustment, child, 639
block, conditioned, non-directive treatment,
3109
co-ordination, & cortical neurones, 2566
feeding mechanism, premature infant,
86
spinal dog, 431(a)
disorders, apraxia, brain localization, 26
paralysis, conscious generalised, 1133
standing, walking, 98
learning, ability, & intelligence, 713
practice distribution, 2149
& respiration, reflex, tension, 1056
performance, alcohol effect, 1053
benzadrine sulfate, effect, 2594
law of, vs. motor work, 2947
maturation, age, sex, 429(a)
signals, effect of, 4323(a)
vitamin B, 77, 4295
proficiency, Oseretaky test, 3776
rate of manipulation test, 3769
response, corrective adjustment, 4633(a)
following starvation, 4301(a)
test, military, 589
units, activation, 90
electric stimulation, 89
Mourning, child, 330
custom, Bengal, 1570
Mouse, audiogenic seizures, genetic factors, 3023
feeding, apparatus, 990
frustration & incomplete adjustment, 1931
house, laboratory breeding, 1349
social behavior, & amphetamine, 4044
Movement, amoeboid, theory, 2589
apparent, Lissajous figures, & flicker frequency, 2569
brain control of, 1387
during sleep, in pilot training, 1825
inter-community, theory, 2713
perception, flicker, 40
illusory, in flight, 2881
spatial, hand, rhythm, 4313
Moving target, pacing, by sound signal, 3921
Multiple-choice, items, response types, 3294
question, in opinion poll, 3651
Murder(er), factors in, 557(a)
famous, handwriting case, 3697
infanticide, 1956
men, of women, psychopathology, 4079
mental diagnosis, 1977
psychopath, case, 3203, 4085
sex, factors in, 558(a)
theory, 1978
Muscle action, biochemistry, 1817
esterase effect, 1433
heat production, 3818(a)
& innervation, 1761
in paralysis, 3542
potentials, & auditory stimuli, 4298(a)
mechanical activity, 2857
& problem solving, 2936
& speed of performance, 2859
stomach, 2175
veratrine effect, 1442
Muscle, atrophy, nerve relations, 2560
from nerve section, 1763
co-ordination, motor cortex, electromyography, 76
contraction, chemistry, 4236
dystrophy, & feeble-mindedness, Rorschach
response, case, 3538
fatigue, oxygen lack, 2595
fibers, cation effects, 2593
nerve, reinnervation, rat, 30
response, to auditory stimuli, 4298(a)
to direct cerebral stimulation, 2561
& nerve injury, 3388
shivering action, 2183
specific relationship, theories, 98
stomach, action potentials, 2175
strength, adolescence, 4412
striated, adrenalin &, 3819(a)
tension, & personality, 1436

- reflex, & mental work, 1447
 tonic, emotional basis, 3075
 voluntary, neural control, 2872
 paralyzed, action potential, 3542
 physiology, review & bibliography, 2858
 post-denervation recovery, 2185
 reactivity, to acetylcholine, 1817
 Music, ability, assessment of, 4090
 & mathematics, 1427
 measurements of, 3738
 pitch, discrimination, 51
 tests, new, 4664(a)
 -al children, vs. non-musical, characteristics, 3495, 3496
 compositions, psychological characteristics, 2645
 education, research, review, 3714
 in industry, 1604
 worker attitude, 1615
 instruments, identification of, 3437
 lessons, characteristics of child taking, 3495, 3496
 liturgy, psychology of, 833
 meaning in, 4089
 monotonous, personality of, 3590
 physiological effects, 2712
 psychoanalysis, 3213
 psychology of, 2710
 bibliography, 2713
 reading, method, 2795
 rhythm, & health, 2701
 psychology of, 2708
 scale, psychology of, 833
 student, Negro, neurotic tendency, 819
 talent & Seashore Test, 3704
 teaching, psychology of, 2794
 vs. musicians, psychological characteristics, 3213
 therapy, 113, 1895, 2645
 history, 1091, 4005
 in hospitals, 1090, 1134, 1901
Muscicapa hypoleuca, 3935
 Musician, blood pressure, 99
 Musicology, & physiopsychology, 663
 Myelin, & nerve conduction, 687
 sheath, nerve conduction, 1386
 Myers, Charles F., obituary, 1368
 C. S. obituary, portrait, 1365, 1730, 3365, 3366
 Myopia, & ametropia, 3427
 & eye measurements, 4281
 & night vision, 4257
 orthoptic training for, 705, 2895
 & pseudo-myopia, 1031, 1806
 Myth, psychoanalysis, 1843
 water, mother symbolism, 441
 war, analysis of, 3657
 Nail-biting, consistency, 632
 personality, military, adjustment, 811
 Names, personal, identification with self, 3032
 Negro women, attitude, 189
 in schizophrenia, 3032
 Narcoanalysis, pentothal, in penal psychiatry, 2669
 of psychotic patients, 3547
 Narcohypnosis, in study of mental phenomena, 2600
 Narcodiagnostics, in psychosis, 3547
 Narcolepsy, familial, 1463
 pathogenesis, case, brain waves in, 788
 pathogenesis of, 1462
 soldier, case, 1461
 Narcosis, electro-, therapy, case, 4494
 Narcotherapy, 2299
 Nasal, disorder, psychosomatics, anxiety, 485
 Nation, behavior of, psychological analysis, 4060
 characteristics, Chinese, 531
 German, 3174
 film analysis, 2375
 culture characteristics, 4551
 differences, in creativity, 3170
 identification of, 1565
 race prejudice, 1953
 reduction, by communication, 3172
 growth, measurement, 3650
 psychiatric aspects, 2607
 war behavior, causes, 2729
 National Council of Women Psychologists, 2088
 National Institute of Industrial Psychology, 2005
 National Mental Health Act, 1510
 National Research Council, Committee on Selection & Training Aircraft Pilots, history of, 2011
 Committee on Service Personnel-Selection & Training, history of, 1731
 Emergency Committee in Psychology, 1363
 National Science Foundation Bill, analysis of vote, 3330
 National Teachers Examinations, 1639
 National Vocational Guidance Association, Ethical Practices Committee, 4126
 membership, directory, 2790
 problems, 4132
 Nationalism, 2353
 attitudes, effect of war, 1583
 vs. internationalism, politico-ethics, 4562
 Natural selection, human mental capacities, 3948
 Nausea, in pregnancy, psychogenic, 2245
 vestibular, epinephrine &, 4299
 Navaho, child development of, 3171
 culture, 1192
 personality development, 1191
 Naval Research Laboratory, research program, 2538
 Navigation, air, error measurement, 3218
 errors, basis for, 4147
 visualization, test for, 4097
 Navigator, training, AAF, 3708
 Navy, amphibious officers, selection, 253
 aviator proficiency, cumulative record, 4601(a)
 civilian employees, job evaluation, 3232
 classification test, validity, 253
 clinical psychology, post-war, 4037
 military psychology, post-war, 4106
 morale, factors, 2276
 officer selection, test, 622(a)
 ordnance aptitude test, 230
 Pacific University, counseling, 1290
 personality tests, 232, 251
 personnel selection, 3227
 psychologists, professional status, 3381
 in psychiatric program, 3814
 sonar officers, selection, 1991
 Nazi, atrocities, German attitude, 198
 German, psychological characteristics, 4057
 resistance movement, 830
 ideology, psychological factors, 2729
 psychopathological, 3645
 leaders, psychological examination, 3200
 in rural areas, Germany, 2730
 vs. Danes, social attitudes, 4540
 youth movement, 3491
 Neck, pain, psychogenesis, 3996
 Needs, expression of, TAT vs. autobiography, 2318
 perception, organizing factor in, 2107
 Negro, acculturation in Brazil, 1548
 albinism, personality in, 1517
 attitude toward church, 1557(a)
 conscientious objectors, 528(a)
 illegitimacy, 828(a)
 religion, 3187
 child, racial attitude, 826
 rearing, 2724
 college women, achievement, 4542(a)
 given name, attitude, 189
 criminality, veteran, 225
 disabled, rehabilitation, 1502
 economic problems, research plan, 3182
 employment, discrimination, 1573
 girls, motor ability, 4526
 high school student, personality, 1922
 illegitimacy, attitudes toward, 1971
 infant, behavior development, 948
 intelligence, high school, 1922
 naval personnel, 2926
 & parent occupation, 2933
 juvenile delinquents, behavior, 3691(a)
 learning ability, special training, U. S. Army, 593, 1262, 1306
 literacy, training, Army, 567
 methods of study, 4035
 music student, neurotic tendency, 819
 patronage in restaurants, survey, 1190
 personality development, problems, 1158
 personnel counselor, 855
 placement service, Quakers, 581
 prejudice against, 1553, 1585
 problems of, bibliography, 3658
 psychologists, need for, 3370
 psychology, review, 2372
 race attitude of, 3668
 race prejudice toward, 4059
 racial stereotypes held by, 1951
 relations, bibliography, 3658
 schizophrenia, social adjustment, 764(a)
 school boy, psychodrama, case, 1269
 social acceptance, 1182
 & skin color, 1298
 white, school groups, 547
 soldiers, emotional problems, 3180
 isolated units, mental disorders, 2989
 status in Hawaii, 4524, 4534
 Neighborhood, stability & adolescent friendship, 2388
 Nembutal, & visual clarity, 4282
 Neonate (see Infant)
 Nerve, action, acetylcholine in, 1751, 1759, 3393, 3827(a)
 barium effects, 1386
 chemical environment, 1745
 cholinesterase &, 1741, 1744, 2559
 drug effects, 1752
 & electric organs, 1750
 enzymes &, 1826
 membrane permeability, 1754
 physico-chemical, 1760
 potassium leakage, 1755
 potential, 1743
 & cholinesterase, 2559
 hypoglossus nucleus, 3837
 in pain, 3843
 synaptic, 1749
 amphibian, effect of penicillin, 3397
 atrophy with disuse, 1763
 auditory, inhibition in, 3891(a)
 refractory period, 3448
 biological effects, radar waves, 3387
 cell, motor, organization in brain, 2872
 centers, electrical characteristics, 4242
 cutaneous, distribution, electrical skin resistance, monkey, 421
 degeneration, & vitamin A, 2564
 destruction of, & muscle action, 1761
 8th cranial, electric potential, review, 2917
 regeneration, 2103
 electric potential, soma vs. axone, 3837
 shock, 367, 375
 fiber, conduction rate, 687
 cortex, rabbit, 362
 crustacean, electric constants, 1756
 diameter, regeneration, peripheral connection, 23
 optic, anophthalmia, 388
 polarized retina, cat, 41
 impulse, electric characteristics, 1756
 motor, central interaction, 2876
 phase boundary potentials resembling, 3826
 sub-threshold stimulation, 3396
 theory, 1005
 transmission of, 686
 injury, electrical skin resistance, 23
 & muscle response, 3388
 & surface potential, 2099
 integration, hearing & psychosis, 2921
 -muscle, bioelectric potentials, 2870
 excitation, crustacea, 1757
 interdependence, 1763
 in muscular atrophy, 2560
 relations, 2185
 specific, theory, 98
 reinnervation, rat, 30
 optic, pathology, diagnosis, 1795
 perceptive units, & visual acuity, 1773
 pathways, auditory, 3448
 for vomiting, 2179
 & pupillary reflex, 3433
 polarity, effect of monovalent ions, 3833
 regeneration, 1006(a), 1743
 sensation, 57
 sensory ending, & acetylcholine, 3834(a)
 sensory, & anoxemia, 366
 head, 1783
 spinal, interaction of impulses, 2876
 stimulation, minimum power, 27
 transmission, review & bibliography, 2862
 Nervous system, afferent connections, 1390
 anatomy, history, 4244
 & labyrinth reflex, 1838
 autonomic, somatic, interrelations, 2100
 stomach & food intake, 4234
 central, review, 1944-45, 682
 stimulation, & autonomic discharge, 2866
 disorders, pemphigus, 1051

- electric fish, 1747
extracortical, 2563
integration, electric theory, 4242
& ocular disease, 1753
physiological dynamics, 3817
recovery from neurological disorder, effect, 2563
review, 1944-45, 681
& sleep, 1435
structure of, 683
syphilis of, & vision, 1114
theory, 1385
& vertigo, 2133
vibration effect on, 434, 1050
visual, 1794
- Nesting, blackbird, 722
Neuralgia, of head, 1783
Neurasthenia, & intellectual overwork, 3041
Neurocirculatory asthenia, pain threshold in, 3552
Neurological defects, appraisal of ability, 3316
Neurology, clinical, Russian, review, 3021
history, Sommering, 3367
Neuromuscular sequence, attitude, theory, 715
Neuropathology, in mental disorders, review, 2982
Neuropsychiatric Screening Adjunct vs. Cornell Selective Index, 1512
Neurosis (see Psychoneurosis)
experimental, 2234
behavior pattern, repetition, 3912
conditioning technique, 4457(a)
electroshock, rat, 1879
motivation, 492
rat, 492, 1476
review, 3053
Neurosyphilis, malarial treatment, 2217
review, 3028
Newark State School, occupational therapy program, 3016
News, analysis *New York Times*, Soviet Russia, 2349
value, distance, source, 218
Newspaper, editorial cartoon, as propaganda media, 2401(a)
legibility, leading, 2791
rumor, item analysis, 1218
social groups, cross influence, 3685
Soviet news, *New York Times*, 2349
New York City, child neglect, 2042
residents, group affiliation of, 2733
New York State Psychological Intern Training Program, 1375
Night vision, & aircraft, transparent areas, 4619
color thresholds, 3866
of Japanese, 378
refractive errors &, 4257
test, radium plaque, 4260
Noise, aircraft, & deafness, 2916
effect, personnel, 851
reduction, 3255
battle, & hearing loss, 2914
effect on hearing, 1771
in industry, 3250
interference of, 2573
masking, of speech, 3888
of pure tone, 3888
measurement, bibliography, 1781
pitch, loudness, discrimination, test, 695
speech, threshold, psychogenic deafness, 127
weaving, deafness from, 3892
Nomination technique, as criterion in personnel selection, 4116
Naval aviators, 4120
officer selection, Marine Corps, 4122
Nomogram, rank, score, conversion, 667
Nonsense syllables, learning, 2160
group experiment, 2584
rate, difficulty, 67
Normal, factor, scale, personality testing, 510
Norway, psychiatric statistics, 1871
Nosology, psychiatric, 4435, 4477
Nostalgia, children's at camp, 3309
Novel, English, 1918-39, social psychology of, 3149
Number, psychology of, 3781
Nuremberg Trials, psychology in, 3200
Nursery, care, effects on child, 2514
school, behavior in, 1697
as child study laboratory, 3970
children, abilities, 2515(a)
parent services of, 3970
readiness for, 3510
- Nursing, "night nurses' paralysis," 1133
psychiatric, active patient, 1898
textbook, 4022
psychology, textbook, 1500
study outline, 1501
Nutrition, interview, factors in, 4033
Nystagmus, brain lesion, habituation, pigeon, 438
modifying factors, 2882
pedigree of, case, 697
- Obedience, child, conflicting authority &, 2516(a)
Obesity, hypothalamic lesions, activity, rats, 3451
neurosis, 1125
psychogenesis of, 3078
Obituaries, Angier, Roswell Parker, 2551
Balfour, Lord G. W., 961
Brett, G. S., 982
Burnett, C. T., 1366
Cannon, W. B., 652, 658
Dumas, G., 14
Ellwood, C. A., 983, 996
Fenichel, O., 669
Field, H. H., 343
Friedjung, J. K., 676
Ghosh, K., 2544
Groves, E. R., 999
Hartshorne, E. Y., 987
Janet, Pierre, 4224
Judd, Charles Hubbard, 2546, 2845
Kappers, C. U. A., 354, 1364
Lewis, Kurt, 2548, 3360
Myers, C. F., 1368
Myers, C. S., 1365, 1730, 3365, 3366
Ranschburg, P., 653
Sachs, Hanna, 2844
Spearman, C. S., 5, 2552, 3362
Valentine, Willard Lee, 2847
- Object, choice, in childhood, 2520
relationship, psychoanalytic theory, 729
Objectivism in sociology, vs. values, 4518
Obsession, compulsive reactions, EEG, 3061
visual image, case, 3989
Obturator, in speech correction, 3585
Occasionalism, critique, & memory problem, 2525
Occupation (see also Vocation)
adjustment, blind, 467
civilian, use in Army, 4104
classification, & Army test scores, 884
counseling (see Vocational guidance)
description, bibliography, 3226
exhibition, 600
fitness for, 1242
hands, markings, 1227
information form, 912
level, college student, & ability, 4128
manual, 612
military, civilian, Army General Classification Test, score, 893
& political cleavage, sociometric study, 2395
in psychology, 993, 2095
in social psychology, 1549
social status of, 1183
Occupational therapy, & education, 3100
for feebleminded, values of, 3008, 3016
history, Benjamin Rush, 4024
history, Pinel, 4020
in mental disorders, history, 3093
patient, response, 161
in psychiatry, 4003
psychology, 120
in psychosomatics, 1082
volunteer workers, selection, 4013
Odors, classification of, 2111
social significance, 1767
Oedipus complex, & anti-semitism, 2377
cultural factors, Gaiga, 2382
Oestrus, physiological measures during, rat, 4321
Office supervisors, training of, 2438
Officer, Army, evaluation, by Board, 4115
selection of, 4113
Marine Corp, selection methods, 4122
enlisted man, relationship, 2394
in India, mental disorders, 2215
Ohio State Flight Inventory, 1990, 2006
Old age, 1343
aging, 1343, 2054
characteristics, & mental hygiene, 3515
client, social case work, 2687
- counseling, 568, 4428
crime, Denmark, 4574
cultural factors, 2526
electro-shock therapy in, 3973
emotional problems, 4429
geriatrics, review, 2966
gerontology, 972, 2053
mental disorders, 153
mental health in, 3972
mental hygiene, 497, 2288
personality pattern, Rorschach, 2692, 3326
presbyopia, 369
psychology of, 2054
psychoneurosis in, 1873
psychoses, vs. arteriosclerosis, 4451
psychosomatic complaints, psychotherapy, 3601
smoking cigarettes, effects, 97
social case work, 2677
institutions, role, 182
textbook, 1919
Wechsler-Bellevue Scale results, 2297
work capacity vs. physical fitness, 3327
worker placement, 2001
- Olfaction, in shrew, 4248
stimulator, dirhinic, 3400
taste, treatise, 384
threshold, blowfly, 1772
treatise, 1767
wireworm, response, 3405
- Ontogenesis, ocular reflex, 1837
Operationism, evaluation, 2068
Ophthalmology, abstract journal, 2839
history of, 2890
Opinion, dynamics, 3654
measurement, scale analysis, 4052
postwar, international relations, farmer, 553
public, methodology, theory, 3677
reporting, world association, 2359
research, history, 3643
social determinants, 3678
research, 520
government, 208
journal, 2543
rural vs. urban, 3669
surveys, radio, attitudes toward, 1194
Opinion poll, adolescent vs. adult, 3492
anti-labor bias, research analysis, 2365
anti-semitic, validity, 4527(a)
dynamics of measuring, 3654
expert panel, technique, 4522(a)
factor analysis, 516(a)
history of, 4053
interpretation, errors, 199
interviewer bias, 3648
mail survey, 181
methodology, 1179, 1181, 2720, 3649
multiple choice question in, 3651
Navy personnel, reeducation, 4166
panel method, 3652
& politics, 1202
pre-test interview, 3653
Psychological Barometer of Public Attitudes, 2706
Psychological Corporation, 202
pupil, parent, teacher, attitudes, 555
questions, reliability & validity, 3653
sampling method, variations, 345(a), 4519(a)
social determinants, 3678
statistics for, 3805
summary, June-Aug. 1946, 1213
summary, Aug.-Oct. 1946, 2368
value, limitations, 186, 187
vs. interview techniques, 1942
vs. survey techniques, 1944
- Opinion Diagnostic Interview, 3654
Opossum, auditory range, organ of Corti, 381
Optical aids, 1017
Optimism, religion, 544(a)
war consequences, personality, 818
Orality, mechanism, in criminality, 2743
& sleep, 2196
Order, climax vs. anticlimax, in argumentative speech, 2352
Order-of-merit, ranking, as criterion, 4094
Organic, concept of, in psychiatry, 1460
Organism, development, concept, 1819
Organismic, theory, motivation, 3786
Organizations (see by name)
Origin, imagination, theory, 711
Oriental stoicism, 206

- Ormsby Village, psychotherapy, delinquency, 496
- Orthopedic defects, psychosomatic aspects, 3075
& auto-driver examinations, 3247(a)
- Orthopsychiatry, trends, 2218
- Orthoptic, training, 1391, 1401
for myopia, 2895
psychological factors in, 3871
in refractive errors, 1798
- Ortho-Rater, vs. clinical tests, 1400
- Oscilloscope, illumination, & tracking accuracy, 1231
- Oseretsky Motor Tests, 3776
- OSS, personnel evaluation methods, 4110, 4111
- Otis Group Intelligence Scale, vs. ACE, 1677
- Otis S-A Test, reliability & difficulty, 1681
- Ovary, hypofunction, mental symptoms, 3995
- Output, rate, incentive, butter wrappers, 248
- Oxygen, altitude, disease, brain potential, 363
lack (see Anoxia)
& muscle action, 2595
- Pain, altitude, & exercise, 2121
analgesics, mental aspects, 2106
back, psychogenesis, 3576
dental, diagnostic significance, 1791
head, syndromes, 1783
heart, etiology, 1392
intensity discrimination, 3841(a)
neural action, currents in, 3843
neurology of, 3031
pathology, 52
in phantom limb, 3566
& psychological response in anxiety, 4311(a)
resistance, measures of, 1822
threshold, drug effect, apparatus, 1347
in dysmenorrhea, 692
guinea pig, 2141
industrial solvents, 2138
in neurotics, 3552
variability, 54
- Painter, personality, 817
Rorschach, TAT, 816
successful, case studies, 2330
- Painting, child, development of, 3508
personality, 2311
training, 1637
patient, psychotic, clinical diagnosis, 468(a)
perception in, 1768
psychoanalysis, woman, case, 2959
psychology, theory, 2585
- Palmar skin conductance & energy mobilization, 716
- Panel, expert, technique, opinion poll, 4522(a)
- Papago Indian, religion, 1965
- Paralysis, conscious generalized, 1133
familial periodic, 2224
- Parameter, estimate from cell proportions, 4216
population, estimating for sequential analysis, 3343
- Paranoia, delusion, parasitosis, 163
masochism, 453
personality, 1130
reaction, social relations, 2990
- Paranormal cognition (see Extrasensory perception)
- Paraphilia, case, 3986
- Paraplegia, rehabilitation, 1086
- Parapsychology (see also Extrasensory perception, Psychokinesis)
Balfour, Lord, contributions to, 961
experimental difficulties in, 1067
field theory, 1065
medium, critique, 1061
review, 2199
seers, 111
- Parent, attitude, in child training, 3321
authority, child, behavior, attitude, 930
care of deaf child, 3966
child, foster family, placement, 935
relations, adolescence, 2811
asthma, 3079
attitudes, 3502
Bernreuter scores & 1528
delinquency, case, 1979
in the family, 3301
family agency & 3297
& feeding problems, 4404
guilt & anxiety in, 3638
Jewishness, problems, 2721
manual, 4416, 4417
mother, 796
putative father, 2681
rejection, 2048, 2811
role in psychotherapy, 1917
& speech defects, 1497
stepmother, 949(a), 2047
in stuttering, 3587
vs. child's age, 3296
child's attitude toward, 3493
handedness, 3907
control, adolescence, emancipation, 946
emancipation, college student, 214
education, movement, 2509
of, & child ability, 1340
foster, & child attitudes, 3302
-image, in marital choice, 1584
maladjustment, & child's speech defects, 1497, 1498(a)
occupation, & child intelligence, Negro, 2933
& student vocational choice, 3230(a)
of problem child, therapy, 1917
pupil, teacher, attitude relationship, 355
& stuttering child, 3999
-teacher relations, 4171
- Parenthood, concept, social status, 523
- Paresis, test performance, & emotions, case, 3025
- Parkinsonism, & personality, Rorschach, 1880
syndrome, vibration test, 1095
- Parole, felons, in Army, 1596
- Parrot, language learning, 4324(a)
- Particle, concept, in biology, 2528, 2531
- Parus major, 3935
- Paternalism in Judaism, & anti-semitism, 1952
- Patient, adjustment to death of psychotherapist, 3620
group psychotherapy, reaction to, 2667
mental hospital, care of, 1898
neurosurgical, reconditioning, 1113
occupational outlet, response, 161
psychoanalysis, 741
aims, 1874
misuse of interpretations, 1060
selection, for social case work, 1899
therapist, relationship, in penitentiary, 2769
relationship, psychopath, 2657
- Pattern Preception Test, 2800
- Peace, psychological problems, 205
stability, program, 2354
- Peirce, A. H., cognition theory, 1423
- Pemphigus, rat behavior effect, 1051
- Penology, experimentation in, 4572
- Penicillin, effect on nerve tissue, amphibian, 3397
- Penitentiary, inmate, psychotherapy rapport, 2769
- Pentothal, narcoanalysis in penal psychiatry, 2669
- Peptic ulcer, psychosomatic factors, 1881, 3073
- Perception, 689, 2114
abstract, & art, 3209
age, sex differences, incomplete pictures, 100
agnosia, cerebral localization, 26
auditory, in mystic practices, India, 3895
axial image inversion, 1418
in brain lesion, 1393
color (see Color vision)
content recognition, perseveration effect, blurred slides, 384(a)
depth (see Space perception)
of direction, visual field & 2577
effects of personality, 4380(a)
emotion & 1417
light, quanta theory, 1804
motivation & 1417
motivational determinants, 2107
in painting, 1768
personal values & 4246(a)
psychophysics, Aristotelian theory, 387
re-enforcement in, 2587
span & reading, 1665, 3276(a)
speech, sentence test, variables, 1410(a)
speed factor, intelligence, 4363(a)
theory, 2567
vibratory, 1793
vision (see Vision, perception)
vs. sensation, in immediate experience, 3842
- Performance, estimate of, neurotics, 1876
measuring input errors, 4181(a)
quotient, attention test, 303
test, 2487
- Performance Test, group oral, 904
Kent-Shakow Formboard Series, Grove
Modification, 2804
reliability, method, 2804
- Perseverance, & gain in IQ, 1420
- Perseveration, effect, content recognition, blurred slides, 374(a)
measurement, 1519
& personality, 1520
- Persona, psychodrama, meaning, 4016
- Personal, constant (Heinich), constancy, 2034
document, analysis, 2070
research use, 4549
history inventory, construction, 2037
inventory, U. S. Navy, 251, 1169
values, & perception, 4246(a)
- Personality, adjustment, prediction, 174
analysis, age level regression, case, 2313
& body build, 4439
change, following amputation, 3482
concentration camp, 1518, 1925
following leucotomy, 131, 3095
military service, scale, 857
following radiation menopause, case, 3143
following starvation, 4303(a)
character evaluation, in delinquency, 2752
characteristics & motion sickness, 3534
patients, colitis, 3569
& children's readers, 3961
concept, among Dagombas (Africa), 3165
& consciousness, 2821
crime, disease, psychosomatic, 167
cultural factors, 1159, 2696, 3663
influences, 2327, 4050
thematic apperception, 1957
development, child, & camping, 3307, 3325
childhood influences, 3960
in chimpanzee, 4384(a)
conflict & tension in, 3974
effect of weaning on, 3955
family & 2518
Indian, 1191
Jewish education goals, 2725
Navaho, 3171
society vs. individual, 4072
differentiation, kindergarten children, 643(a)
disturbance, in combat fliers, 767
& convalescence, duration, 2237
querulance, 2303
& reading disabilities, 3267
double self, illusion, 3479
effect on perception, 4380(a)
enthusiasm-staleness, & physical fitness, 3956(a)
& extrasensory perception, 2336
affectability test, 1170
expansion-compression, 1160
factors & accidents, aviation, 2328
& hand dominance, 1434
& imaginary companions, 1684
infant development, studying, 3513
inheritance, Mendelian, 4387
integration, & excess verbal traits, 3147
self-regulation, 1147
intelligence & 2158(a)
marihuana, 504, 2322
& memory, 1151, 2934
muscle tension & 1436
nailbiting, military, 811
normal vs. psychotic, 4394(a)
objective vs. subjective traits, 4387
old age, Rorschach pattern, 2692
structure of, 3326
optimism, war consequences, 818
pattern, & menopausal reactions, 4474
in glaucoma, 1883
perseveration & 1520
& personal names, 3145
play experience, drama, 1531(a)
psychological vs. medical point of view, 3477
& psychosomatics, Rorschach, 1880
& responsibility, 2321(a)
in social adjustment, 3275
pathology, 1186
psychology, 2324, 4375
& socioeconomic status, 1554
& speech ability, 1526(a)
& spontaneity, 1523(a)
student, 506
supernatural phenomena in, 3953
textbook, 170, 1186

theory, 2310, 2314
type, in adolescence, 4419
critique, 4435
by factor analysis of subjects, 4394(a)
from factor analysis, 4395
Galen, 4383
Humm-Wadsworth scale, 3475
inarticulate, case, 4398
typology, theory, 3487
value system, 2583
Vitamin B, 426(a)
& vocation, adjustment, 4392
Rorschach, 1929
vs. interests, 4613(a)
word usage &, 1164

Personality, methods of study, 1100, 1533
biographical value analysis, 4399(a)
constitutional analysis, 2305
dream analysis, 2323
experimental study, 1522
factor analysis, 1521, 1533, 1875, 4376
finger painting, 1166, 3634(a)
graphology, 500(a), 1530, 1535, 3462,
3476, 3481, 3485
historical persons, 3957
incomplete sentences, 2697
integration, analysis, 1536
inventory, forced vs. paired choice re-
sponse, 4043
Multiphasic (see Minnesota Multi-
phasic Personality Inventory)
Navy, 251, 1169
neurotic, NRC, 4175
objective, Rorschach, 808
personal, & intelligence, 159
military, 232, 251
scores, EEG, 3954(a)
Indian college students, 3952
literary character choice, 4396(a)
measurement, 501, 2316
non-test, review 1943-46, 3139
open-end questions, 4386(a)
profile, interpretation, 2320
questionnaire, 513
research, 1943-46, 3139
validity, 1926, 1928
self-insight, measurement, 4381(a)
sociometry, 2363
tests, 3779, 4176
Bernreuter, 2695
score analysis, 1532
Cornell Index, 175, 1920
group use, 168
mirror tracing, 1167
normality factor, 510
response bias, 4382(a)
validity, 502

Personality studies of,
adolescents, rural, 1589
alcoholics, 1154, 4438(a)
anti-semitic, 1927
Bible Institute students, 505(a)
blind, 2690
child, factors, 2810
painting, 2311
preschool, 1706
criminals, 1600
eunetics, military, 450(a)
girls, appearance, 1932
head injury cases, 1854
historical persons, 3957
homosexuals, 1168
leaders, test scores, 3489
magicians, 106
monomaniacs, 3598
Negro, albinos, 1517
development, 1158
high school students, 1922
music student, 819
painters, 816, 817, 2330
parents, 1528
poet, case, 2319
research workers, 3484
scientists, 3718
students, 506(a)
teacher, adjustment, 2787
classroom, 2786
evaluation, 1171
vs. pupil, 4638(a)
twins, suicide, 1980
ulcer patients, 3991, 3992
vegetarian, 1923
veterans, 1157
ward patients, 3575

Weininger, Otto, 2090
women, menopause, 1485
occupational differences, 1534

Personnel, administration, in Army, 242
bibliography, 1622
plans & programs, 1234, 3709
research needs, 229
standards of, 241
administrative, tests, validity, 905
civil service, efficiency ratings, 1621
college faculty, 2007
evaluation, assessment, 4110
prison, relationships with inmates, 2762
problems, hospital, 2781
psychologist, selection, research, 2295
psychology, training program, 3707
public, rating, training, experience, 908
service, Canada, 872(a)
rating, 2434
research, U. S. Army, 565
selection, category prediction, 4212(a)
salesmen, 865
technique, 2445
social work, case load, 2663
student, counseling, 2444
programs, 2430
selection, medical school, 2770
psychiatric factors, 1671
service, program, 2430
teacher training, 2473
textbook, 1664
supervision, 849
teacher, 2424
efficiency, analysis, 2787
teaching, student selection, 2474
university, non-academic, 3707
work, high school, 621
training for, 2446

Personnel (aviation), AAF Qualifying Exami-
nation, 3711
accident-proneness, selection, 2002
accidents, personality factors, 2328
combat, criterion, 4120
fatigue, Rorschach analysis, 2629
crew proficiency measurement, 4121
EEG of, 3832
fear in, 2972
flight training, 1992
hearing defect, 2120
morale of, combat, 4045
navigator, flight performance, 3218
partner selection, 2447
physical standards in selection, 4096
physique & flying, 4136(a)
pilot competency, rating, 1997
research, in combat areas, AAF, 3716
procedures, AAF, 3721
review, 1940-44, 2011
resistance to pain & fatigue, 1822
selection, 834, 1609, 1618, 2426
Army General Classification Test, 893
biographical data, 2037
criterion, 2035
interview in, 1989
Mashburn apparatus, 1830
psychomotor tests, 1835, 1836
reaction time, 1824
& training, AAF, 3708
sleep motility, 1825
training aids in, 1999
instructor, ratings, 1996
vocabulary, 1998
measure achievement, 1990, 2006,
2012, 2013
prediction, success, 2000, 2003

Personnel (industrial), adolescent, attitudes,
4119
in factory work, 3243
Army methods, use of, 3223
bookkeepers, selection of, 4105
corporation practices, 869
department of, function, 2782
disabled, 2014
employment interview, record form, 3233
techniques, 1983
engineers vs. mechanics, selection, 2439
executives, selection, 2425
foremen, functions of, 870
status of, 3237
hiring methods, 4596
insurance agents, appraisal, 4099
job attitude, 2776
interpersonal relations, 1230
labor turnover, 850(a)

management, social values, 4593
morale study, 4602(a)
Negro counselor, 853
office supervisors, training of, 2438
older worker, 2001
pooled judgments, 3235
problems of, 3709
psychiatry, 374, 3217
problems, 3706
selection, 1605
psychology, 863
psychoneurosis in, 1137
race discrimination, 1573
relations, 1959
rating, employees, 3234
method, 2072, 4597
relation to customer, 2016
salesmen, selection, 3713
selection, application blank in, 3717
Bernreuter scores, 1532
MacQuarrie test for Mechanical
Ability, 1678
methods, 3238
textbook, 3222
procedures, film strip, 4604
& society, 2015
supervision of, 2772
supervisor, tasks of, 3712
training, 2779
test, norms, local, 4095
practices, survey, 4588
vs. interview, 4102
testing, 2780
program, introduction of, 3216
textbook, 3722
training program, 4598
transit industry, 860, 866, 886, 887, 888
turnover control, 4585(a)
underprivileged worker, 1986
women, hours of work, 3236
worker attitudes, 2440
workers' mental health, 2436

Personnel (military), Air Forces, program
post-war, 4100
Army methods in industry, 3223
attitudes toward Navy education, 4166
civilian skills, use of, 4104
classification, methods, 2775
counseling, by chaplain, 4109
criterion, ratings as, 4116
English competence, test for, 4173
enlisted, Navy, competence, 4094
fugue states in, 3985
height-finder operators, 3854, 3877
management, 242
Navy, aviation, EEG, 3832
delinquency, 2421
intelligence, subnormal, 2777
test performance, 2773
program post-war, 4106
neuro-psychiatric, screening, 1085, 3637(a)
Marine Corps, 3705
Navy, 4043
officer attitude, 2394
efficiency ratings, methods, 4388(a)
evaluation, per Board, 4115
personality disturbances, analysis, 2231
program, post-war, 4098, 4112
promotion, & abilities, Army, 4101
psychopathic, use of, 4607
psychosis in, vs. civilian, 4453
range-finder operators, 3853, 3876, 3881,
3921
inter-eye-piece distance, 3875
ranging on target, & practice, 3936
rejection, causes, 2427
research, 565
seasickness, susceptibility, Navy, 3899
selection, in Air Forces, 1618
aircraft, 1609
Great Britain, 2010, 3224, 3227, 3245
group Rorschach, 1514
Marine Corp. officers, 4122
methods, 4500
neuro-psychiatric, 1511
officer, 1936, 4107, 4113
psychiatric, 3224
for schools, 4600
psychopath, 797
sonar officers, 4097
for stereoscopic ability, 3860, 4256
for submarines, 2784
tactical radar, 1619
tests in, 4176

- British, 3245
West Point Cadets, 4584(a)
situational appraisal, 4111
sonar officers, navigational visualization, 4097
selection, 1991
Perspective, 1935
Persuasion, in argumentative speech, 1547(a)
Pertusis, psychic effect of, case, 1329
Pestalozzi, Johann Heinrich, biography, portrait, 1735
Phantom limb, phenomena, 2883, 3566
Phase analyzer, EEG, 2877
Phenomenal constancy, 2852
Phenomenology, 2060
 imagination &, 2154
 & psychology, 2061
Phenylpyruvic idiocy, case, 474
Phenylthiocarbamide, taste, in diabetes, 4249
Phi coefficients, table of, 2832
Phi-phenomenon, & conditioned reflex, 694(a), 702(a)
 history of, 700(a)
Philosophical psychology, 2066
Philosophy, American, history, 992
 journal, new, 2858
 occasionalism, & memory problem, 2525
 of psychiatry, 2854
 realism in, 2523
 of science, its scope, 3329
Phobia, & antipathy, 1173
 case, treatment, 2680
 disease, skin, 163
 job, 2678
Phonology, & psychology of language, 4325
Phoria, detection, Ortho-Rater, 1400
 psychoneurotic, 3046
 tests in industry, 1614
 visual axes &, 2901
Photometry methods, review, 4280
Photosensitive substance, in photo receptors, 3416
Phylopathology, 2214
Physical, ability & social adjustment, 1695
 capacity, measurement, 3385
 characteristics of criminals, 3198
 condition, measure of, blood reduction, 3389, 3390
 differences, & science talent, 4646(a)
 disability, amputation, adjustment, 3482
 & personality, case, 3538
 psychological effects, 3564
 trade school students, 3764
 education, evaluation in, 1256
 learning rate, college women, 2464(a)
 performance measures, 2180
 examinations for trade schools, 3764
 fitness & enthusiasm-staleness, 3956(a)
 test for evaluation, 2953
 growth, factor analysis of measurements, 4237
 handicapped, rehabilitation, 3609
 test performance of, 3630
 skills, learning, 2922
 standards, & flight training, 4096
 tests, performance, B complex deficiency, 4295
Physician, selection of, by psychodrama, 3715
Physics, particle, approach to biology, 2531
Physiological, gradients, in development, 1819
 measures, in adolescence, 2815
 psychology, 2063
 & musicology, 663
Physiology, brain, 24
 of central nervous system, review, 1944-45, 682
 & consciousness, 1792
 neural, history, 4244
 organism, community, phylobiology, 338
 of premenstrual tension, 3822
 of work, review, 3820
Physiotherapy, & education, 3100
Physique & flying success, 4136(a)
Pig, susceptibility to alarm, 1821
Pigeon, nystagmus, habituation, brain lesion, 438
Pilot (see also Personnel (aviation))
 accident-proneness, 2002, 4627(a)
 accidents, personality factors, 2328
 anxiety in, 2965
 aptitude, factorial composition, 4211(a)
 tests for, 4587
 combat adjustment, 3069
 comfort, & aircraft design, 3254
 emotional adjustment of, 2997
 eye movements, in landing, 1803
 flying habits, analysis, 2013
 hearing defect, 2120
 motivation, & resistance to stress, 2171
 performance, in power turns, measuring, 4583
 personality, undesirable, 3240
 proficiency, criteria, flight training records as, 4591(a)
 cumulative record, Navy, 4601(a)
 training, 1992
 psychomotor test, 419(a)
Pineal gland, concept of, Descartes, 671
Pitch, absolute, review, 3444
 discrimination, 2131(a)
 context effect, 696
 noise level, 1776(a)
 test, 695
 piano notes, pure tones, 51
 tone duration, 704
 & rhythm, 2708
 sensitivity, acoustic trauma, 53
 quantal vs. non-quantal, 4287
Pitresain, effect on EEG, 2878
Place, discrimination, in maze learning, 1807
Plato, soul, concept of, 971
Play, attitude in work, dilettantism, 2823
 center, inter-racial, effect on prejudice, 4532(a)
 children's, program for, 4415
 drama, personality, speech correction, 1531(a)
 technic, & problem type, 2684
 therapy, dolls, 1333
 group, nondirective, 2256
 individual vs. group, 4497
 by social workers, 952(a)
 work, child, rural, 194
Pneumonia, pseudo, post-operative, 2636
Poet, personality study, case, 2319
Poetry, aesthetics, psychological analysis, 3212
 child, attitude toward, 2350(a)
 rhythms in, 3211
 women's response to, 1590(a), 1591
Pollomyelitis, post-, 503
 personality test scores, 4423(a)
 psychosocial effects, 2707
Politics, ethics, & individual, 4553
 foreign policy, psychological aspects, 1937
 Hitler, A., psychoanalysis, 2195
 ideology, & individual behavior, 4563(a)
 international, human nature, 4562
 opinion poll &, 1202
 party affiliation, sociometric study, 2395
 psychology of, theory, 3677
 social psychology of, 1958
 social status &, 3672
 & technology, 4511
Poll (see Opinion poll)
Population, Chinese, rate of growth, 3661
 (statistics), distances, 3355
Porteus Maze Test, correlation vs. Binet & Goodenough, 4370
 review, 2495
Portraits, Boring, E. G., 1369
 Cannon, W. B., 658
 Darley, J. G., 3359
 Dewey, J., 1369
 Garrett, H., 1421
 Goddard, H. H., 1369
 historical, 2084
 Holt, E. B., 351
 Johnson, Wendell, 2553
 Judd, C. H., 2845
 Kappers, C. U. A., 354
 Kelly, E. L., 3359
 Kinder, Elaine, 3359
 Köhler, W., 1369
 Macfarlane, Jean W., 3359
 Marquis, D. G., 3359
 Montessori, M., 1630
 Moore, B. V., 3359
 Myers, C. S., 1365
 Pestalozzi, J. H., 1733
 Richardson, M. W., 3359
 Sears, R. R., 3359
 Shurtle, C. L., 3359
 Society of Experimental Psychologists, 4219
 Spearman, C. E., 5
 Terman, L. M., 1369
 Watson, G., 1003
 Woodworth, R. S., 1369
Valentine, W. L., 2847
Portugal, child clinics, 1915
Position effect, in rating scale, 984
Post-partum psychosis, social adjustment, 769(a)
 schizophrenia, social factors, 793(a)
Posture, reflex, pathological, action potential, 3542
 righting activity, centers, cat, 92
 & stereo-acuity, 4264
Postwar, adolescence, economics, America, 638
 attitude, of Japanese, 1189
 child group behavior, 3512
 crime in, 3702
 international relations, opinion, farmer, 553
 psychiatry, 1145
 psychology, France, 656
 military, clinical, army, 4041
 Navy, 4037
 personnel, 4098, 4112
 aviation, 4100
 Navy, 4106
 problems, 205
Potassium, & nerve action, 1755
Practicality, one-sided aptitude, case, 2806, 2807, 2808
Practice, distributed coordination tests, 1836
 & learning, 2149
 pursuit test, 1835
 trial-and-error learning, 2925
 improvement with, in target ranging, 3936
 learning, effect on SD of scores, 3932
Prediction, achievement, school subjects, factor analysis, 282
 of categories, statistical, 4212(a)
 of college performance, problems, 2452
 criterion problem, 988
 differential, critical scores, 304
 of delinquency, case study, analysis, 562(a), 2369
 pilot success, interview technique, 1989, 2000
 preschool test, item selection, 286
 psychological insight, judge, 312(a)
 in psychosomatics, 1090
 of scholarship, test comparison, 1304
 scholastic success, & intelligence testing, 1284
 in science, 973
 validity, probation, follow-up, 174
Predisposition, vs. environment, in delinquency, 2753
Preference, aesthetic, artist criteria, correlation, 210
 book, child, 960
 choice, temporal proximity, 65
 in discriminatory relationship, effect, 2410(a)
 social influence on, 1561
Pregnancy, nausea of, psychogenic, 2245
 vomiting, etiology, 2644
Prejudice (see also Anti-Semitism, Race), 1950
 constancy of stereotypes, 3178
 effect on response to propaganda, 3193
 ethnic, personality, child, 637(a)
 guidance work, 354
 intolerance of veterans, 4525(a)
 psychology, 1962
 reduction of, 1961
 social, dynamic basis to, 3662
 theory, survey, 1953
Prenatal behavior, 2503 (see also Foetus)
Presbyopia, 369
Presentation, auditory, for adult learning, 2153(a)
 of propaganda, cartoon vs. editorial, 2401(a)
 radio & attitude modification, 2344
 of statements, & belief, 2351
Pressure, respiration under, 3823
Prestige, & attitude changing, 4565
 in rural community, 1970
 symbolism, dress 545
Pretense of reluctance, custom of, 1203
Primate, & evolution, 1047
 psychology, 2055
 sex behavior of, 3458
Primitive, ceremonial prostitution, Trobriand, 541
 culture pattern, maturation, 1569(a)
 Fijians, color vision, 38
 Malagasy, attitude toward foreigners, 1564
 peoples, intelligence, review, 2381

- ritual, psychoanalysis, 539
 Prison (see also Crime & criminals, Delinquency)
 authority in, problems, 2746
 classification in, 2750
 correctional psychology, handbook, 2758
 guidance program, 1263
 inmates (see Prisoner)
 malingering in, 2674
 program reports in, 4048
 psychiatry in, 2744
 psychotherapy in, 2647
 purpose is reeducation, 4081
 social case work in, 2763
 Spanish America, 1982
 Prisoner, abnormal drinkers, analysis, 2749
 anxiety states, management, 2662
 attitude, imprisonment, 219
 electroencephalogram, 2767
 hypocriticism, 2661
 intelligence testing, 561
 mental hygiene of, 4088
 military, anxiety, behavior types, 508
 nondirective, vocational counseling, 2412
 personality study, 1600
 & personnel, relationships, 2762
 psychological reactions of, 4578
 psychotherapy, rapport, 2769
 suffering, factors, 2413(a)
 vocational guidance, 845
 of war, mental disorder, 1107
 psycho-neurosis, 2628
 woman, escape amenorrhea, 2643
 Probability, of given value deviation, 3342
 Probation, prediction, validity, follow-up, 174
 Problem solving, by birds, 3935
 effect of early experience, 4336(a)
 mathematics, configuration, 64
 methods, abstract, 1627
 muscle action, potentials during mental, 2936
 in social situation, rat, 4330(a)
 statistical criteria, 1036
 Professional ethics (see also Code of ethics), 865, 1172, 2097
 Profile, personality, interpretation, 2320
 test, chart, 3775
 Progressive Education Association, 1690(a)
 Progressiveness, conservatism, college work, effect, 903
 Projection, diagnosis, child, Binet IQ, 472
 & mote-beam mechanism, 2324
 motion pictures, & depth perception, 2575
 painting, psychotic patient, 468(a)
 Projective techniques (see also Rorschach), 1155(a), 1930, 2338
 age-level adjustment tests, 3306
 Bantu divining basket, 1574
 child, 931(a), 1706
 dream analysis, 2323
 fear drawings, 1319
 finger painting, 1166, 3144, 3634(a)
 Levy Movement Cards, 4401(a)
 open-ended questions, 4386(a)
 painting, child, 2311
 research, 1943-6, review, 3141
 selection literary characters, 4396(a)
 sentence completion test, 2337
 Similes Test, group use, 3138
 story telling, 2334
 TAT vs. autobiography, 2318
 tests, concepts, 814
 use with academic failures, 4653(a)
 World Test, 2317
 written composition, 3123
 Prominence, scholastic standing &, 2462
 Promiscuity, personality difficulty, 806
 psychological factors, 1913
 Propaganda, 2402
 anti-Semitism &, 1949
 attitude modification, cartoon, editorial, 2401(a)
 enemy country, broadcasting, effectiveness, 180
 foreign, in U. S., 1185
 individual response to, 3193
 maps in, 1933
 in psychological warfare, 1539
 techniques, religious groups, 4566(a)
 in war, 822, 1568
 in World War II, 3195, 3680
 Proprioception, & autokinetic illusion, 4270
 discrimination, arm, accuracy, 4625(a)
 in shivering, 2183
 Prostitution, bibliography, 805
 ceremonial, Trobriand, 541
 social therapy, 4018, 4021, 4030
 Protein, self-selection & need, rat, 4292
 Pruritus, psychogenic cases, 2239
 Pseudopsychology, 2067
 belief in trends, 2096
 Psyche-concept in medical psychology, 963
 Psychiatric social work, & group therapy, 4489
 history, 4002
 review, 1946, 3106
 Psychiatrist, development of, autobiographical, 3974
 qualifications, 4031
 & psychologist, co-operation, 2271
 in therapy, 2279
 V. A., training program, 2988
 Psychiatry, audio-visual aids, 2294
 child, 1112
 journal, new, 3808
 mental hygiene, 327
 clinical psychology &, 2213, 2612, 2849, 2851
 clinical research in, 3520
 concepts, history, 1465
 philosophical, 2854
 in correctional institution, classification clinic, 2744
 in criminology, needs, 2759
 delinquency, penal law, 842
 Denmark, relations, 3522
 diagnostic categories, quantitative, 3532
 ethics of, 2205
 in France, 1852
 functional, organic, concept of, 1460
 future in Canada, 4433
 in general hospital, 1096
 history, Cervantes, 3526
 France, 19th century, 4223
 guide, 147
 mediaeval, 3517
 Rush, Benjamin, 1736
 industry, 574, 3217
 journal, new, 2841, 3808
 legal aspects, 1220
 Levant, racial groups, 144
 life chart, use of, 751
 medicolegal, history, France, 150
 sex, perversion, 152
 military, 754, 755, 1075, 1085, 1126
 Air Forces, World War II, 2987
 Army, 482
 British Army, 3530
 casualties, 141, 754, 775
 combat, program, 2260
 complaint, morale, selectee, 212
 contra-hospitalization, 3084
 Cornell Selectee Index, 175
 diagnosis, 1121
 functions, 2609
 & hearing defect, 136
 Navy, World War II, 2970
 Normandy invasion, 2995
 overseas administration, 3523
 paranoia, case, 1130
 personality test, 159, 232
 problems, 1905
 screening Naval personnel, 4043
 selection, personal inventory, validation, 251
 social work, 115, 162
 submarine service, 2970
 tests, 261
 use of term "combat fatigue," 3562
 veteran, 490
 World Wars I & II, 3533
 World War II, 1907, 2967, 2986
 yearbook, 3524
 murder, theory, 1978
 nosology, 4435, 4477
 in present day, essays, 3976
 problems, U. S., 1906
 psychological testing &, 3122
 & psychology, 2213
 rating scale, 140, 1513(a)
 in rehabilitation, 1106
 & religion, 1910, 2399
 research needs in, 3379
 review, 1944-45, 794
 1946, 2983
 Rorschach test, role, 1717
 social, aspect of, & statistics, 780
 case work, 2290, 2682
 factors, 1849
 theories, 2206
 symbolism, theory, 63
 system of, 2611
 textbook, 1124, 1851, 2968, 3977
 Thematic Apperception Test, value, 1525(a)
 training, clinics, standards for, 1903
 trends, 2218
 war, contribution, 1075
 & war, cultural aspects, 2607
 influence, 1145
 Psychic phenomena, in personality, 3953
 Psychical research (see Parapsychology)
 Psychoanalysis, 733, 799
 as basic psychological school, 3788
 & Catholicism, 4062
 critique, 1453, 3112, 3333
 development of, 738
 experimental, review, 2194
 Freudian, critique, 3333
 genetic approach, 2193
 history of, 645
 Eder, D., 2192
 English school, 2187
 Holmes, O. W., 2200
 Jung, C. G., 2091, 3361
 pre-Freudian, 2961
 medical vs. lay, 1457
 neo-, theory, 3533
 occupational hazards of, 1835
 review, 1944-45, 726
 in science history, 342
 scientific laws in, 105
 symbolism, 2960
 telepathy in dreams, 2191, 2201
 theories, 727, 1454
 yearbook, 2197
 Psychoanalysis (interpretations)
 anti-semitism, 1954, 1958, 1964
 artist, 1847
 of burial customs, 4543
 Caesar's death, 443
 of child development, 3960
 of child neurosis, 1474
 criminality, 2761
 death, 444
 drama, 447
 gambling, 3151
 Goya's etchings, 217
 insomnia, 2962
 impotence, frigidity, 2230
 of living alone, 2704
 motives, 1844
 of music, 3213
 myths, 1843
 nursery rhymes, 447
 of rituals, 539
 of St. Paul, 3157
 of seers & visions, 111
 Weininger, Otto, study of, 3780
 of woman vs. man, 2601
 Psychoanalysis (therapy)
 alcohol addiction, 3054, 3055, 3056
 analyst, selection, 740
 cases, 3058, 3594
 child, 110, 1846
 intractable, case, 642
 resistance, 728
 conversion hysteria, transference, case, 118
 criticism, 3603
 group therapy, 730, 1135, 3622
 indication for, 744
 masturbation fantasies, case, 1858
 neurosis, 736
 Oedipus complex, case, 109
 patient, aims, 1874
 attitude, 3081
 concealment of facts, 4015
 individuals problems, 739
 insight, case, 4484
 interruption misuse, 1060
 resistance, 3082
 role, 741
 psychopaths, 4026
 schizophrenia, & shock therapy, 2654
 self analysis, 734
 sterility, case, 473
 symptoms after treatment, 765
 technique, 745
 transference, case, 118
 resistance, 107
 vs. group therapy, 3622
 vs. psychodrama, 3608, 3615
 vs. shock therapy, 2654, 4009

- Psychodrama, 2263**
 abreaction in, 3111
 action catharsis in, 3595
 child, 1098
 in community relations, 4067
 & education, 3624
 in foreman training, 4093
 & general semantics, 1197
 graduate seminar, 1162
 & group therapy, 1110, 1119
 hospital, 1093
 in labor-management relations, 4108
 in leadership training, 3644, 4051
 Negro schoolboy, case, 1269
 in pre-marital counseling, 4061
 problems, 1163(a)
 & psychiatric therapists, 3613
 & psychoanalysis, 3608, 3615
 relations to dramatics, 3627
 St. Elizabeth's hospital, description, 4008
 in selection of physicians, 3715
 situation test, 1165
 speech, correction, 3588
 defects, child, 1144
 stuttering, 1102(a), 3518
 In teaching, 1275, 4153
 techniques, 1148
 terminology, history, 4016
 therapy, traumatic neurosis, 4006
 in training, interviewers, 3813
 of guidance workers, 3604
 use by expert advisers, 4155
 in family life, 3967
 values of role playing, 3608
 vs. non-directive therapy, case, 3611
Psychogalvanic response, & affect value of
 words, 4304(a)
 conditioning of, 4332(a)
 in anxiety, 3067
 measurement unit for, 4309(a)
Psychogenesis, concept, history, 3978
Psychogram, for predicting success of feeble-
 minded, 3009
Psychokinesis (see also Parapsychology)
 experiment, 1062
 position effect, 1064, 1066, 2202
Psychological Association of the Province of
 Quebec, 339, 649
Psychological Barometer of Public Attitudes,
 2706
Psychological Corporation, 202, 2087
Psychological warfare, 822
 army evaluation of, 4064
 organization for, 4065
 broadcasting, enemy country, effectiveness,
 180
 in combat zones, 1568
 SHAEF, 1539
 World War II, 3195, 3680
 U. S., psychologist report, 2408
 criticism, 2404
Psychologist, Army Special Training Program,
 graduates, 1739
 case interpretation & specialist agreement,
 2361
 certification (see Certification)
 classification, 993
 clinical, army duties, 1740
 duties, Army hospital, 4035
 in military psychiatry, 2986, 2987
 in psychiatry, 2271, 2279, 2849, 2851,
 3814, 3815
 vs. experimental, 3374
 consulting, industry, 853
 in education, 1249(a)
 experimental vs. professional, 1376, 2554
 in government, problems, 1738
 professional status, 3381
 hospital function, 123
 income, 1940-45, 4230
 industrial, achieving acceptance, 3216
 military, professional problems, 2556, 2558
 survey, 336
 training, 1739
 working conditions, 3383
 naval, professional status, 3381
 Negro, need for, 3370
 notehand system for, 2557
 occupational opportunities, 2095
 in psychiatric selection of army officers,
 3274
 in rehabilitation, 1258
 research, co-ordination, 2555
 salary survey, 1945, 2094
 school, certification, 1374
 selection, research, 2295
 student, professional problems, 3377
 training, Austria, 4193
 vs. physician, in child guidance, 3477
 in Veterans Administration, Mental Hy-
 giene Clinic, 2281
 training program, 2300
 woman, career, 969, 970, 1372
Psychology, 1345
 bibliography, 1934-44, 1728
 dissertations, 1945-6, 997
 periodicals, 998
 classification, bibliographic, 2541
 concept of soul, 15
 dynamic, 986
 psychobiological theory, 4189
 & educational research, 1261
 encyclopedia, 2083
 ethics (see Code of ethics)
 field concept in, 2855
 frames of reference in, 2059
 future development, 479
 Gestalt, social situations, 526
 textbook, 3787
 holistic-semantic theory, 3333
 intentional, 344
 journal, new, 2838
 knowledge of, adolescent, 604
 literature, difficulty of, 4194
 medical, philosophical concepts, 2854
 objective vs. subjective, 3792
 occupations in, 993, 2095
 & phenomenology, 2061
 philosophical, 2063, 2066
 professional problems, 1738
 pseudo-, belief in, trends, 2096
 relativism, theory, 197
 research, principles, 2069
 schools, critique, 3788
 need of, 3785
 viewpoints, 1712
 Woodworth vs. McDougall, 3790
 as science, 105, 1715, 2064
 social responsibilities of, 3816
 of statistics, 658
 subjective vs. objective, theory, 4202
 thomistic, 4196
 systematization, 2057
 teaching, first course, 3371, 4227
 needs, 609
 textbook, 11, 964, 968, 1714, 2824, 3787,
 4188, 4195
 illustrations, 2084
 theory, 1344, 1346, 2058, 3792
 mental phenomena, 4202
 semantics of, 4201
 semantic clarification, 4199(a)
 training in, experimental controls, 3328
 course, 1737
 language requirements, 3372
 In UNESCO, 3682
Psychology (history)
 aircraft pilot research, 2011
 American, 992
 Austria, future of, 4193
 Brazil, 2092
 Canada, 4179
 child, 1367
 Clark University, 1367
 clinical, 1896-1946, 2545
 Descartes, 671
 Europe, 4205
 Hindu, 334
 Holmes, O. W., 2200
 Hume's *Treatise*, 1735
 Hungary, 4221
 hypnosis, 1458
 Italy, 2093
 Jung, C. G., 2091
 learning theory, 2448
 medical influence, 3810
 professional, 2547
 psychosomatics, 2642
 publications, 1936-46, 3368
 Rush, Benjamin, 1736
 sociometry, 2303
 South America, 347
 Thomas Aquinas, 986
 World War II, 1363, 1731
 Yoga, 3784
Psychometrics (see also Test, Testing)
 brief tests, 2801
 diagnostic, 4040
 clinical, problems, 2679
 & psychiatry, 3122
 review, 3126
 survey of use, 2527
 in penal institution, 2754
 personality (see Personality, tests)
 psychophysiology, factorial approach,
 358(a)
Psychoneuroses, electroshock treatment, 2262
 in general medical practice, 4460
 vs. Humm-Wadsworth Scale profiles, 3475
Psychoneurosis (see also Anxiety, Hysteria,
 etc.), 2255
 airblast, reaction to, 2621
 & alcoholism, 2293
 & anisakonia, 750
 anoxia, EEG, 1475(a), 1477(a)
 & aspiration level, 1876
 breathing, case, 4462
 in children, 1474, 2275(a)
 combat, in fliers, 3555
 teleology of, 3549
 compulsive, soldier, 1507
 concept of, diagnosis, 3563
 in criminals, 4073
 & criminality, in psychoanalysis, 2743,
 2761
 defiance as, case, 3984
 delinquent behavior, mechanisms, 559
 diagnosis, criteria, 2233
 factor analysis, 1875
 divorce request, reaction to, 749
 & employment, 571
 of escaped military prisoners, 2628
 from intra-family relations, 4443
 gastric, management, 2635
 after head injury, case, 787
 & hypoglycemia, MMPI scores, 3049
 in industry, 1137
 libido in, 3528
 & malingering, 3551
 & menopause, 2638
 in mentally deficient, 3003
 military, anxiety, combat, 154
 Army rank, 132
 childhood factors, 813
 casualty, Guadalcanal, 477
 combat, cases, 135, 3549, 3555
 conditioned response, 119
 Guadalcanal, 477
 hearing defect, 136
 incidence, veteran, 461
 World War I, II, 451
 personnel, analysis, 2231
 treatment, British Army, 798
 vs. civilian, 1878
 moods, origin, 4312
 moral factors, 125
 nature & types of, 4459
 in nursing mothers, 4467
 obesity, 1125
 obsession, suggestion therapy, case, 3086
 occupational outlet, response, 161
 ocular, in children, 3068
 conjunctivitis, 3057
 diagnosis, 3043, 3044
 ego involvement, 3064
 nature of, 3046, 3065
 in old age, 1873
 oral, resistance in psychoanalysis, 3082
 in out-patient clinic, 1515
 pain threshold in, 3552
 & psychopathy, differences, 2286
 reflexes, as diagnostic signs, 3550
 response on MMPI, simulated, 3140
 & separation from Services, 3042
 sexual, in soldiers, 1479
 smoking, compulsive, 459
 soldiers, retraining of, 3560
 spontaneous, in chimpanzees, 2233
 symptoms, choice of, 2632
 selection of, 2229
 test pattern, differential, 3048
 theory, 737, 2257
 therapy, 2635, 3988, 4461, 4468
 in British Army, 798
 carbon dioxide, 1897
 drug, 3606
 electroshock, 3094
 group, 2259, 3593, 3621
 psychodrama, 4006
 reassurance, 2272
 suggestion, 3086
 transference, defense against, case, 3088

- traumatic, case, 3559(a)
in veterans, 490, 3554
work adjustment, 4118
vitamin B-complex, 84
vs. schizophrenia, differential diagnosis, 3037
vocational adjustment, engineering, 281
war, 1877
clinical vs. control groups, 3058, 3059
employment of, 571
- Psychopath, case, 1109**
child, 2604
concept, 2605, 2606, 3052
criminal, 3687, 3701
EEG, 4077
responsibility, 4073
EEG, 1388, 1843, 2767, 2993, 3061, 4077
embezzler, case, 4078
etiology, 2212
group psychotherapy, 1889
intelligence of, 3047
military, Rorschach, 169
motivation, antisemitic, case, 3040
murderer, case, 4085
neurotic reactions of, malingering, 3551
obsessive-compulsive, EEG, 3061
paranoid, personality case, 3050
passive, hypnotherapy, 4023
personality structure, case, 3051
psychoanalysis, therapy of, 4026
sexual delinquency, 1976
social influence, 3645
term, criticism, 3052
treatment, patient-therapist relationship, 2657
use in military service, 4607
- Psychopathology, comparative, textbook, 3525**
& crime, critique, 4577
of criminals, 2420
of murderer, 4079
of pseudo-humbug, 1924
& psychology, 2704
symbolism in, 4431
- Psychopathy, delinquency, 222**
delinquent girls, 847
diagnosis, 797
& neurosis, differences, 2286
personality, concept, 2606
emotions, 792
military, Rorschach, 169
- Psychophysical, dualism, judgment scale & practice, 3406**
as psychosomatic theory, 3334
methods, & time error, 2576
stimulus, Fechner formula, 373(a)
- Psychophysics, 2075**
adaptation-level, theory, 2570
Aristotelian theory, sense perception, 387
brightness judgment, 3863
- Psychophysiology, factorial approach, 358(a)**
- Psychosis (see also Manic-depressive, Schizophrenia, etc.)**
adolescents, 1870
after-care, social service &, 3607
alcohol &, 2977
catatonic, in Mongolism, 3013
child, case, 3548
concept, syndromes, 2228
of criminals, factors, 2420
delusion & childhood experience, 1092
diagnosis, anthropometry, 1472
TAT, 3632
differentiation, by MMPI, 4501(a)
episodic, adolescent, case, 3033
boy, case, 2625
& hearing theory, 2921
libido in, 3528
in military, 1869
morphine as cause of, 3036
narcodiagnostics in, 3547
in naval personnel, 1869
organic, thinking disorders, 4506(a)
paintings, 448(a)
patients reaction to sound motion pictures, 4482
post-partum, social adjustment, 769(a)
in primitive tribes, lack of, 4056
psychogenic vs. schizophrenia, 4449
senile vs. arteriosclerotic, 4451
stuttering, 747
& suicide attempts, 2981
in veteran vs. civilian, 4453
- Psychosomatics (see also Diseases)**
childhood, in etiology, 1331
aspects of, 1339
in chronic illness, 1888, 3070
complaints, post-combat, 3571
concept of, 2642
convalescence, duration, 2237
crime, personality, 167
cultural factors, 2240, 3173
diagnosis, 3577(a)
in general medical practice, 1884, 3993, 3994
industrial problems, 3706
medieval, theory, 3990
methods of inquiry, 2285
& mind-body theory, 3334
muscle tonicity, in orthopedics, 3075
& occupational therapy, 1082
pain, 52
post-operative, 2636
predictability factor, 1090
reactions, in Army, 3573
review, 1946, 2983
Rorschach, 1880
"sick book rider," 2243
& social case work, 1140, 2251
somatopsychological problem, 3564
somatization reactions, 3573
stomach & emotion, 1882
symptoms, choice of, 2632
understanding by public, need for, 3076
of ward patients, 3575
women's problems, 2634
- Psychosurgery, psychologist role, 2265**
review, 1946, 2983
- Psychotherapy (see also Bibliotherapy, Shock therapy, Psychoanalysis (therapy), etc.), 128**
in Army mental hygiene unit, 3635
in Army training centers, 3084
& attitude toward clinic, child, 1105
auratorne films, 1132
authority, subordination relation, 4027
battle sounds, in combat fatigue, 1894
brief, description, 1103(a), 4481
in psychosomatic problems, 3601
relationship, military, 783
social work, 1904
& brief stimulus therapy, 2660
camping as, 3087, 3101, 3110
conflict in, 3114
consciousness &, 3927
child, in conflict situation, case, 4491(a)
evacuee, 2517
problem, 317
techniques, cases, 801
deep vs. shock, 4009
in Denmark, 4485
determinism, freedom, 475
directive, 1147
in adult emotional disorders, 4004
constitutional analysis in, 2305
vs. non-directive, 746
drugs in, 3606
educational group, 3596
evaluation of methods, 3113
factors in, 2265
forced, delinquency, Ormsby Village, 496
& general practitioner, 1884
group, activity, selection, child, 480
vs. individual, 3616, 3622
veteran, neuropsychiatric, 777
-history, Benjamin Rush, 4024
Esquirol, 4005
hypnosis, 442, 3597, 4032
hypnosis in, 4032
in industry, 3714
insight, description, 3085
intuition in, 1097
journal, new, 2082
medical vs. lay, 1457
methods, analysis of, 3338
Myerian psychobiology, 4010
military, 1135
British Army, 486
research, 1911(a)
training center, 449
music (see Music)
narcosis, 454, 2669
narcosurgery, history, 2299
new methods, needs & values, 4031
non-directive (see also Counseling), 752, 786
client-centered, 487
criticism, 768
- in motor block, 3109
for reading disabilities, 3736
recognition of client's feelings, 3105
training program, 3373
- parents & children, 1917
patient-therapist relationship, psychopath, 2657
& personality, 2521(a)
psychiatric nursing, 4022
rapport, in, prison, 2769
reassurance, 2272
as re-education, 2992
relaxation &, 3102
& remedial reading, 4160
role of educator, 3100
sense of well being &, 755
shock (see Shock therapy)
silence, as technique in, 3116
social work &, 762, 771, 3083, 4002
by social workers, 2251
vs. psychiatrist, 1974
somatic methods, criticism, 160
success, factors in, 4493
suggestion, hysteria, 4486
supportive, with colitis patients, 3569
survey of, 2270
symptomatic, 759, 3988
theory, 130, 2257
moral factors, 125
neo-psychoanalytic, 3333
training program, group, 3092
for physicians, 3107
tutoring as, 1499
vs. non-psychological, 4496
- Psychotherapy (applications),**
alcoholism, 3553, 3626, 4466
allergy, 455(a), 1077
anxiety states, 2662
behavior problems, 2694
catatonic excitement, 488
colitis, ulcerative, 2249
combat fatigue, 2260, 2633, 3096, 3603, 3618
compulsive neurosis, 1507
criminal problems, 1223, 2277, 2647
deafness, 800
delinquents, 1979, 2414
gastric neurosis, 2635
hysteria, 4486
impotence, 2301, 4469
jealousy, 1859
mental illness, requirements, 2973
overactivity, psychotic, 1898
psychoneuroses, 3560, 3988, 4459, 4461, 4468
in puberty, 2670
schizophrenia, 460(a), 758, 3097, 3912
latent, 4007
tuberculosis, 1893
- Puberty, in psychotherapy, 2670**
- Public, administrator, interests, 2475**
opinion, measures, & political action, 1938
personnel, Canada, 872(a)
rating, training, experience, 908
recreation, & Y.M.C.A., 2738
relations, opinion poll, limitations, 187
- Pulfrich effect, 1795**
- Punishment, corporal, child rearing, 324**
psychiatry &, 1220
& rehabilitation, 2756
verbal learning, response variability, 417(a)
spread of effect, 408(a)
- Pupil (eye), diameter, & visual acuity, 3859**
dilation, cortical stimulation, 101
reflex, binocular summation, 3433
- Pupil (school), adjustment, teacher adjustment, effect in, 2449(a)**
development, appraisal, 2023
emotional adjustment, 1688
failing, recognition time, 3262
group experience, 1651
intelligence scores, 1935-42, 4645
IQ change in generation, 4364
& parent attitude, 3502
problem behavior, 3761
reading retardation, causes, 614
sociometric study, 1542
teacher relation, 553, 2786
understanding, 1251, 1264
vision, survey, 2134
visual defects, 383, 2129
working, survey, Argentina, 2041

- Pupillometer, infra-red, 3422(a)
 Purdue Mechanical Adaptability Test, 579
 Purpose, values, in behavior, 4203
 Pursuit, rotary, learning curve constants, 4326(a)
 task, movements employed, 4626(a)
 test, scores & practice, 1835
 Pyorrhea, psychogenesis, 4472
Pyrrhula pyrrhula, 3935
- Qualitative attributes, factor analysis, 4213
 data, reliability, 8
 Quality, perception, 698
 Quantification, of psychiatric diagnostic categories, 3532
 Querulance, 2303
 Questionnaire, adjustment, rating correlation, 513
 personality research, 1943-6, review, 3139
 validity, 502, 1926, 1928
 vs. interview method, sex practices, 2347
 scale analysis, 3649
 Questions, written, in group psychotherapy, 3090
- Rabbit, cortex, degeneration, 362
 EEG, metrazol, convulsion, threshold, 688
 odoriferous glands, 3384
 Rabin ratio, cautions on use of, 3636
 Race, attitudes (incl. prejudice)
 answering, training in, 4560(a)
 in Army, 2374
 bases & results, 1950
 of Canadian youth, 3659
 of caseworkers, 2376
 changes in, 4541
 changing of, 1593, 3186(a), 3668
 inter-racial play center, 4532(a)
 children's, changing, 3186(a)
 combating, minority groups, 4531(a)
 genesis of, 826
 geographic distribution, 4059
 influence on, 1941
 motivation for, 4533(a)
 of Negro, 1951
 theory, 1585
 toward Negro, 1553
 World survey of, 1953
 concept, critique, 3176
 differences, Armenian-American, social participation, 2731
 Berbers, intelligence, 3169
 color vision, 38
 criticism of, 3176
 Japanese-white, nightvision, 378
 Jew-Gentile, friendships, 1556
 Navaho-white, test performance, 3171
 Negro-white, attitudes toward conscientious objectors, 528(a)
 child rearing, 2724
 health, 1566
 infant development, 948
 intelligence, 204, 2926
 learning, verbal, military, 593, 1262, 1306
 military offenses, 203
 personality disturbances, 2231
 discrimination, in employment, 1573
 & environment, child development, 1703(a)
 minorities in American fiction, 183
 psychiatric problems, Levant, 144
 psychology, critique, 2378
 Oriental stoicism, 206
 relations, Army practices, Negroes, 3180
 bibliography, 3658
 Chinese-White, 1955
 community clinics for, 2726
 in East Africa, 3666
 in Hawaii, Negro, 4524, 4534
 World War II, 4536, 4548
 in industry, 1959
 Japanese-White, 1199, 1955
 Jew Gentile, 1556
 Malagasy-white, 1564
 methods of study, 3666
 Negro-white, 1182
 in Army, 2374, 3180
 jokes, 2725
 social acceptance, 1208
 in Y.M.C.A., 2722
 placement services, Quakers, 581
 religion &, 4528
 research plan, 3182
 survey, Negroes in restaurants, 1190
 theory, 1961
 social acceptance of, school groups, 547
 talent, eugenics, 211
 Radar, tactical, training, prediction, 1619
 Radio, attitudes toward, 1194
 audience measurement, 4628(a)
 lectures, vs. classroom, 2348
 listening habits, adult, 1544(a)
 & reading, efficiency, 3268
 religious broadcasts, 1575(a)
 time vs. frequency, 3732
 mass persuasion, war bond drive, 2406
 presentation, & attitude modification, 2344
 propaganda, enemy country, effectiveness, 180
 research, 2407
 waves, high frequency, biological effects, 3387
 Radium plaque, night vision test, 4260
 Ranch mink, sex activity, sunlight effect, 723
 Rangefinder, inter-eye-piece distance, 3875
 operation, atmosphere, 60
 pacing signal, 3921
 perspective effect, 269
 operator, accuracy, 266
 bracketing & contact, 3878
 & chromatic dispersion of eye, 3864, 3882
 effect of loud sounds, 3883
 performance after lay-off, 3876
 measures, 693, 4500
 selection, 243, 244, 245, 246, 257, 258, 259, 260
 sex differences, 265
 target position, 3879, 3880
 training, 233, 244, 245, 256, 587
 inter-ocular distance, 268
 with knowledge of results, 3943
 training device, 247
 visuo-motor, 3936
 Rank, score, conversion, nomogram, 667
 Rarschburg, Paul, obituary, 653
 Rat, in animal psychology, review, 2056
 anxiety & response fixation, 4300(a)
 behavior, effect of pemphigus on, 1051
 brain, cortex, structure, 364
 convulsion, audiogenic, 410, 4233, 4305(a), 4314
 electroshock, 399(a), 437(a), 712, 1451, 3939
 review, 3386
 water spray, 770
 domestication of, 3336
 feeding apparatus, 990
 "freezing" behavior, 1577
 fetal development, hyperthyroid, 3958
 fetus, behavior, 4402
 food, self-selection, protein, 4292
 hoarding, 1444, 1829, 4296, 4321(a)
 learning (see Learning)
 nerve, muscle, reinnervation, 30
 neuronal, experimental, 1476
 techniques, 4457(a)
 Norway, gnawing, 430
 vs. Alexandrine, audiogenic seizures, 4233
 preference, sodium chloride, 4293(a)
 problem solving, social situation, 4330(a)
 reasoning, electro-convulsive shock, 712
 sex behavior, castration, age, hormone, 72
 sleep, hypothalamic regulation, 93
 lack, effects, 1828
 water-hoarding by, 4296
 Rating, courses, undergraduate student, 294
 as criterion, personnel selection, 4116
 employee, methods, 2072, 2434, 3234
 forced choice, for efficiency, 4388(a)
 handwriting, intelligence, personality, 500(a)
 high school student, 1273
 job, abbreviated scale, 237, 580
 judge, ability, 512(a)
 merit, methods, 4597
 personal adjustment, subjective estimate, correlation, 513
 of public speaking analysis, 2370
 scale, bibliography, 1310
 as criterion for prediction, 988
 efficiency form of item, 4388(a)
 for executives, 3220
 halo effect control of, 4378(a)
 for pilot competency, 1997
 position effect, 984
 psychiatric, 140, 1513(a)
 EEG, 140, 1504(a)
 terms, descriptive, 270
 testing, correlation, supervisory success, 250
 of training & experience, 3231
 public personnel, 908
 Ratio test, in sequential analysis, 1358
 Rationalism, criticism, 666
 Reaction, latency, vs. reinforcement, learning, 3463
 potential, vs. errors, learning, 3469
 test, military, apparatus, 584
 transit employee, 887
 time, action potential, arm, 433(a)
 of binocular fusion, 4256
 & cortical neurones, 2566
 decision, test, 1824
 perception, incomplete pictures, age, sex, 100
 & retroactive inhibition, measure of, 2932
 serial, apparatus, 1830
 effect of distraction, 1832
 visual stimuli, action potentials, 2860(a)
 word association, 3900
 Reader interest, advertising, & typography, 3248
 Readers, school, analysis of themes, 3961
 Readiness, attitude, sequence concept, 715
 Reading, ability, blind, Braille, hand movements, 279
 College Board Examination, 289
 development of, 877
 early stage, test, 300
 reasoning in, 1632
 silent, child, deaf, 290
 achievement, & comic books, 3746
 factors in, 2468(a)
 & laterality, 2017(a)
 & speech disorder, 3582
 adult interests, study guide, 2032
 & blinking rate, 3408, 3424
 books, & personality development, 3961
 college freshman, problems, 289
 comprehension, visual process, 272
 for content, 1643
 diagnostic tests, intercorrelations, 3743
 case, white vs. red light, 2127
 effect of vibration of material, 4621(a)
 efficiency during radio-listening, 3268
 eye movements, time relations, 2957
 vs. subject matter, 3265(a)
 illumination, 2123
 instruction, diagnostic tests, 4239(a)
 interests, bibliography, 2032
 scientist, humanist, 896
 study guide, bibliography, 2032
 test for, 2450
 as learning method, research needed, 2457
 mental hygiene, 880
 music, method, 2795
 novel, affect value, 4581
 perceptual factors in learning, 3464
 psychology of, 2789
 rate, comprehension, illumination, 292
 & perceptual span, 1665, 3276(a)
 research, 1945-6, review, 3258, 3744
 bibliography, 1940-4, 618
 needs, 2457
 social effect of, 4046
 in social indoctrination, 3679
 speed, & leading, newsprint, 2791
 & spelling, 879
 teaching of, 878, 1643, 1648(a)
 methods, 1646
 research needed, 2457
 test, diagnostic, 4639(a)
 factor analysis, 295
 Gates, primary, Belgian adaptation, 284
 Iowa Silent, scholastic aptitude, 283
 validity of, 3762
 Reading disabilities, 2465
 diagnosis, 1643
 tests, 4639(a)
 etiology of, 1672
 & handwriting, 4649
 & hearing defect, child, 2027
 non-directive therapy for, 3736
 remedial methods, 273, 1629, 2789
 dramatic dialogues, 3267
 program, & college library, 2793
 psychotherapy, 4160

- spelling, writing, 599
work in English class-room, 3270
retardation, causes, 614
reversals & laterality, 1632
review, 2030
in secondary schools, 2483
theory, technique, 599
Realism, of aspiration level, 2163
in philosophy, 2523
Reality, mastery, 108
Reasoning, defensive argument, 4360
educational theory, 1625
electro-convulsive shock, rat, 712
inductive, test for, 3767
in reading, 1632
syllabic, distorted, use in attitude measurement, 831(a)
teaching of, 3471
textbook, 394
Reassurance, in psychotherapy, 2272
Recall, interpolated activity, 412(a)
as measures of retention, 4345(a)
nonsense syllables, after short time intervals, 2939
of thought, 1811
Receptor, chemo-, horsefly, 690
system, 2144
Recidivism, military delinquents, 3695
prison function &, 4081
Reciprocity, measurement of, in sociometric test, 977
Recitation, mystic, auditory perception, India, 3895
Recognition, nonsense syllables, proactive inhibition, 2160
time, word vs. object, 3262
Record, verbal, analysis, 2360
Recreation, adolescent interests, 955
for feeble-minded in institutions, 2999
group work, Y.M.C.A., 2738
Industrial, 1607
& industrial efficiency, 3221
& music therapy, 1091
as psychotherapy, 4492
in rehabilitation, 776
Reflex, conditioned (see Conditioning)
cutaneous, 3031
eye, frog tadpole, 1837
galvanic, measurement, apparatus, 2071
nerve, cutaneous distribution, monkey, 421
gasping, isolated mouse head, 2598
grasp, analysis, 3920(a)
patellar, centripetal stimulation, 91
in psychoneuroses, diagnostic, 3550
response, & visual cortex, cat, 4272(a)
vestibular, after nerve regeneration, 2102
vibration, effect on, 434, 1050
Refugee, youth, post-war problem, 4418
Regression, age, hypnosis, mental age, 448(a)
curve of best fit, 1724
Rehabilitation, 463, 1226
blind, 293, 1118
brain lesion, psychological aspect, 1901
case load quota, 2663
case records, 2539
in chronic illness, 4025
& convalescence, 4025
of criminal alcoholic, 2765
deafness, soldier, psychoneurosis, 136
delinquency, Ormsby Village, 496
group psychotherapy, 2652
Navy, analysis, 2747
repentance & remorse, 2748
of disabled Negro, 1502
epileptic child, public school program, 2671
vocational problems, 2664
group methods, veteran, 2269
hearing defects, 1788
Humm-Wadsworth Scale in, 3475
in industry, England, 1238
job phobia, 2678
of maladjusted personalities, 2250
mental disorder, problems, 2651
woman, 1890
military offenders, 848, 2650
neuropsychiatric veterans, in South, 3600
of neurosurgical patients, 1113
paraplegic veteran, 1086
principles, 2646
program, coordination, 1505
psychologist, function in, 1238
psychiatry in, 1106
psychosis, military, 1869
punishment &, 2756
recreation in, 776
role of educator, 3100
services, individual use of, 2665
veteran, 1934
follow-up, 1250
group methods, 2269
neuropsychiatric, 3600
paraplegic, 1086
World War I, 1663
in Veterans Administration hospitals, 1108
vocational, counselor, interests & efficiency, 4225(a)
handicapped, blind, 293
United States Disciplinary Barracks, 2650
Reinforcement, in delayed reward learning, 1429, 4333(a)
Relationship, comprehension, child, 318
Relativism, value judgments, 197
Relaxation, in short-term psychotherapy, 3102
Reliability, Kuder-Richardson formula, 2488
split-half, 1675
test-retest, qualitative data, 8
test, concept of, 2830
& item analysis, 3799
Relief clients, occupational classification, 4558(a)
work, psychology in, 85
Religion, attitude, adolescence, 216
conventional vs. radical, 4549
Negro, 3187
scale, Catholic, Protestant, Jew, 191
Catholic (see Catholicism)
& child care, 3323
in church, psychology, 176
Christianity in China, 3183
concepts, 2398
education, adult, psychology, contribution, 193
in education, 2022
educator, characteristics, 1296
factor influencing, 4063
God concept, children, 3964
groups, propaganda, 4566 (a)
Hindu, Mohammedan fakir, 527
psychology, 334
leadership in, 4063
mother goddess, Judaism, 517
optimism, general, war consequences, 544(a)
Papago Indian, 1965
paternalism in, & Anti-semitism, 1952
primitive, Dagombas (Africa), 3165
problem, evaluation of, & general semantics, 1546(a)
& psychiatry, 1910, 2399
psychology, 188, 535(a), 551(a), 2389, 4555
European, 2399
Jung, 3673
& race relations, 4528
ritual, psychoanalysis, 539
& science in culture, 4547
& social work, 1172
social psychology, theory, 3672
St. Paul, psychoanalysis, 3157
in student counseling, 4038
Relocation, adjustment to, Japanese-American families, 3164, 4054, 4539
Reluctance, ceremonial, 1203
Remedial reading (see Reading disabilities)
Reminiscence, following failure, 2931
motor learning & rest periods, 4339(a)
Remorse in rehabilitation, study of, 2748
Repentance, in rehabilitation, study of, 2748
Repetition, indiscriminate learning, 4334(a)
Repression, & telepathy, 2201
vs. inhibition, theory, 3914
Research, child, Samuel S. Fels Institute, 953
clinical methodology, 3520
clinical psychology, needs, 3379
consumer, opinion, 520
co-ordination, need, 2555
delinquency, 2417
education, arithmetic, 2453
measurement, 2485
psychology, 2478
Scotland, 1927-45, 616
reading, 2457
industry, evaluation, 2437
illumination, visual case, 390
institution, human relations, 1611
military equipment, AAF, 2565
history, 2536
music education, review, 2714
naval aviation psychology, 1732
Naval Research Laboratory, 2538
opinion, attitude, journal, 2543
pilot, review, 1940-44, 2011
principles, 2069
programs, prejudice, reduction, 1593
psychical (see Parapsychology)
psychology, France, post war, 656
in international affairs, 3674
public opinion, government, 208
reading, bibliography, 1940-44, 618
science, appreciation, layman, student, 16
on social problems, needs, 3675
social psychology, international cooperation, 3684
in social science, 1940, 1943, 1945, 1946
technique, in history, 3340
trends, 2062
work, physiology, Germany, 859
workers, personality traits, 3484
Resistance in child psychoanalysis, 728
& motivation, pilot, 2171
pain, fatigue, measures of, 1822
patients, in psychoanalysis, 3082
Restraint, neonate reaction, 328
Respiration, electro-shock effects, 3080
feeding mechanism, premature infant, 86
forced & hyperpnea, 720
mechanism, 436
nerve center, electric stimulation, 4242
neurotic incoordination, case, 4462
pressure breathing & altitude tolerance, 2172
rate, mammal, temperature, 87
during motor learning, 1056
sensibility & melancholia, 1473
underwater, conditions of, 3823
Response, -bias, test, compensation, 4382(a)
difficulty, 414(a)
fixation, & anxiety, rat, 4300(a)
isolation, serial learning, Thorndike effect, 71
learned, & affective judgment, 2161
mechanism, 2144
muscular, generalization, 1816
pattern, generalized, analysis, 984
number, sequence, 401(a)
restraint, neonate, 328
set & test validity, 2489
Responsibility, personality &, 2321(a), 2583
Rest, period, learning, 416(a)
& reminiscence in motor learning, 4339(a)
Retention, forgetting, rate, 396(a)
learning, interpolation, time, 60
motivation, rat, 406
recall as measure, 4345(a)
of stereoscopic ability, 3860
of thought, 1811
Retina, adaptation to illumination level, 4276(a)
cells, photosensitive substance, 3416
cone receptors, Stiles-Crawford effect, 1411
rods, & visual acuity, 1773
contrast sensitivity, light stimulation, 43
correspondence in strabismus, 2887
electrical measurement, & illumination, 4276
response, & dark adaptation, 4271(a)
electroretinogram, cone, infrahuman, 31
image, blurring, measuring, 2116
of point source, 3851(a)
polarization, optic nerve fiber, cat, 41
rivalry, & color vision, 2142
sensory relationships, in strabismus, 3410
sensory mechanisms, textbook, 3846
spectral sensitivity, 1416
Retinopathy, psychosomatic, post-combat, 3579
Reward, delayed & reinforcement, discrimination learning, 4333(a)
Rheumatism, heart, 1481
psychogenesis of, 3074
Rhythm, hand movement, voluntary, 4313
laying, artificial, hen, 4302
musical, & health, 2701
& perception of body, in enuretics, 2627
physiological, rat, 4231
pitch &, 2708
poetry & prose, 3211
as temporal figure, 2948
theory, 213
Rigidity, of disposition, measurement, 1519
flexibility, & personality, 1520

- Ritual, psychoanalysis, 539
 Robbery, psychopath, case, 3701
 Roeder General Aptitude Profile, 4666(a)
 Role, playing, measure social aggressiveness, 4393(a)
 personality, speech correction, 1531(a)
 psychodrama, meaning, 4016
 Rome State School, training program, 3011, 3018
 Rorschach, 2325
 bibliography, 1937-46, 2689
 child, 807, 3146(a)
 clinical use, 172, 173
 combat fatigue, analysis, 2629
 content analysis, 2694
 convulsion during, 785
 criminal diagnosis, 4082
 criticism, 1717, 1930
 dangers of increasing use, 4390
 in delinquency research, 2417
 epilepsy, psychodiagnosis, 2673
 of girls, promiscuous, 806
 group, in military selection, 514, 1514
 reliability, 2693
 for screening Marine Corps personnel, 3705
 validity, 1524
 values, 3478
 human responses, 2691
 & hypnotic age level regression, 2313
 military, psychopathic personality, 169
 movement response, delinquent, 515(a)
 multiple choice (see above-group)
 old age, personality pattern, 2692
 postencephalitis, 503
 problem child, 1918
 in psychosomatics, case, 2641
 record analysis, 814
 reviews, 314, 809, 2689
 scientists' responses, 3718
 scoring, categories, personality inventory, 809
 social psychology, 2326
 validity, intellectual control, 2803
 vs. ACE scores, 3480
 vs. Behn, & Harrower, 4389(a)
 vs. Kohs Blocks, color responses, 4391(a)
Rorschach Research Exchange, bibliography, 1937-46, 2689
 Rotation, forced, dog, & cortical lesions, 4243(a)
 Rotter Level of Aspiration Test, relations to other performance, 3142
 validation of, 3135
 Rumor, alleged, belief in, 2351
 analysis, 2339
 in newspapers, item analysis, 1218
 Rural, adolescents, social psychology of, 1589
 child, play, 194
 vs. urban, ability, 3765(a)
 community, prestige in, 1970
 criminality, Denmark, 4574
 foster care, social case work, 1693
 Nazism, Germany, 2730
 opinions, vs. urban, 3669
 youth, friendships, 1559
 guidance, 3729
 Rush, Benjamin & psychiatry, 1736
 Russia, attitude toward, *New York Times*, 1917-46, 2349
 intelligence distribution, 4367(a)
 Rutgers Psychological Clinic, 1142
 Sachs, Hanna, bibliography, 2846
 obituary, 2844
 Sadism, homosexuality, 453
 picture mutilation, case, 4463(a)
 of vegetarian, 1923
 Sadomasochism, case, 3986
 Safety, 578
 emotional factors, 226
 Salary & counselor selection, 1232
 Salesmen, selection, 865
 interview in, 3713
 Salvation Army, counseling, veteran, 1245
 Sampling (see also Statistics)
 economy, engineering statistics, 647
 error, large, uses, 1355
 methods, review, 3804
 in opinion poll, 345(a)
 selective, in psychological research, 3351
 size, in military research, 3800
 statistical, stratified-random, 3345
 Scale, analysis, method, 2534, 4052
 in questionnaire, 3649
 discrimination, method, social attitudes, 4521(a)
 meter, legibility, 4636(a)
 reading errors, 4620(a)
 music, psychology of, 833
 polar, interpretation readings, 4616(a)
 rating, for employment, 4597
 Wechsler Memory, alternate form, 919
 Scarabaeus, inclinative behavior of, 4317
 Schizophrenia, adolescent, therapy, case, 3097
 benign form, in depersonalization, 1853
 blood circulation in, 1868
 & body build, 4439
 borderline, psychoanalytic therapy, 4026
 boy, case, 1074
 bromide intoxication, 766
 case, Nijinsky, V., 166
 categories, 1872
 child, 1139, 2225, 2624
 diagnosis, 4447
 lobotomy, effects, 2656
 shock therapy, 2226
 convulsive seizure, in case, 785
 delusion, sexual content, 3546
 depression in, 2622
 deterioration in, 4452(a)
 diagnosis, in children, 4447
 Rabin ratio, 3636
 Wechsler-Bellevue, 1866
 etiologic, review, 1935-45, 1865
 genetic theory, 1470
 genetics of, 2227
 introversion vs. extroversion, 1864
 latent, psychotherapy of, 4007
 lobotomy, 1128, 2254, 2656
 matricide, case, 3545
 military, prisoner, case, 4086
 service, 1094
 nursing care in, 3982
 occupational therapy, 4003
 personality, psychotherapy, 460(a)
 reconstruction, personal name &, 3032
 post-leucotomy creativeness, 3038
 post-partum, social factors, 793(a)
 prodromal factors, 4454(a)
 psychoanalysis in, 3528
 psychogenic, girl, case, 772, 773, 774
 psychological tests, & shock therapy, 4448(a)
 response on MMPI, simulated, 3140
 shock therapy, 758, 1088, 2253, 2266, 3089, 3103
 social adjustment, 760(a), 781(a)
 social work treatment, 758
 thinking disorders, 4506(a)
 treatment methods, 1143
 vs. feeble-mindedness, differential diagnosis, 3001
 vs. psychogenic psychosis, 4449
 vs. psychoneurosis, differential diagnosis, 3037
 Scholar, reading interest, 896
 Scholarship, achievement, veteran, 613(a)
 college student, prediction, 1304
 deficiency, student, 301
 & prominence, prediction, 2462
 of veterans, 1305
 Scholastic aptitude, reading scores, college freshman, 289
 reading test, in predicting, 283
 test, college entrance, examination board, score increase, 2496
 School, attendance, truancy, 2486(a)
 bus, mental hygiene &, 3282
 character-education, 1912
 child (see Pupil (school))
 child's attitude toward, 3756
 emotional adjustment to, 1688
 class size, effect on achievement, 3266
 classroom, discipline, 4654
 sociometry, 1276(a), 1297(a)
 elementary, educational psychology, 2023
 guidance in, 3259
 reading in, 1643
 speech re-education in, 1657(a)
 entrance, readiness, 2498
 grade & handwriting, 1647
 mathematical interest, 287
 preference, books, 960
 marks, intelligence test, student selection, 1257
 & interests, college freshmen, 890
 mental hygiene &, 2296
 project in, 3589
 Montessori, 1630
 private, achievement, 2484
 pupil aptitude, 2497
 readiness testing in, 2498
 problems, 1303
 psychological report, guidance, 278
 services in, 4641
 public, speech correction in, 1662(a)
 publications, in pupil development, 1651
 race, social acceptance, Negro, white, 547
 record card, in vocational placement, 3731
 secondary (see High school)
 social function, 1216
 teacher-child relationship, adjustment, 2449(a)
 teacher-parent relations, 4171
 trade, physical examination in, 3764
 in treatment, child guidance, 894(a)
 & vocational training, 4165
 School subject (see Arithmetic, Reading, etc.)
 agricultural education, 1267
 art education, 1285
 business education, 1277
 electronics, achievement, Navy, 4158
 engineering, 1298
 English, 1635, 2454, 4173
 French, 4167(a)
 handwriting, 1647
 health education, 1294
 home economics, 1281
 industrial arts, 1289
 language arts, 1268
 logic, 1247
 mathematics, 1270, 1300
 painting, development, 3508
 physical education, 1256
 science, 1271, 1636(a)
 social sciences, 2467(a)
 social studies, 1244
 speech, 1526(a)
 stenography, 1624
 technical education, 1302
 transfer of training in, 1650
 typewriting, 1624
 understanding in, measurement, 1272
 Schubert, G. H. V., dream theory of, 1452
 Science, appreciation, layman, student, 16
 & culture, 4197, 4547
 of culture, 2373
 in education, 1292, 1303
 Gestalt psychology &, 2065
 interest, child, 1636(a)
 language, influence on, 1709
 laws, application, psychoanalysis, psychology, 105
 legislation, 79th Congress, 3330
 logic of, 4190
 method, universality of, 4204
 philosophy of, 648, 651, 661, 662, 1344, 1708, 1709
 prediction in, 973
 in psychology, 1715, 2064
 purposes of, 4184
 reading skills in, 1643
 realistic philosophy &, 2523
 scope of, 3329
 social (see Social sciences)
 & social problems, 4511
 & society, 1543
 in sociology, 4508, 4518
 symbolic language in, 3945
 talent, & physical differences, 4646(a)
 search, 1710
 teaching evaluation in, 1271
 thinking, hypothesis, 1247
 unity of, 4204
 writing, handbook, 3809
 Scientific method, 661
 engineer, social aspects, 2741
 operationism, 2068
 & social problems, 985, 2524
 in study of culture, 2373
 textbook, 1034
 Scientist, personality pattern of, 4392
 reading interest, 896
 Rorschach responses of, 3718
 Sclerosis, multiple, mental symptoms, 3541
 Scopophilia, of pseudo-humbugs, 1924
 Score, increase of, test repetition, 2496
 rank, conversion, nomogram, 667
 Scoring, Keysoot, method, MMPI, 509
 machine, direct reading, standard scores, 10
 methods, 2074

- short, MMPI, 171
Scotoma, from anoxia, 1797
decompression, sickness, 391
Scottish Council for Research in Education,
history, 616
Seashore Measures of Musical Talent, validity,
3704, 3738(a)
Seasickness (see Motion sickness)
Sea turtle, embryo, development of behavior,
4403(a)
Seizure (see Convulsion)
Selection (see subjects selected)
differential prediction, critical scores, 304
evolutionary, & mental ability, 3782
hearing aid, criteria, test, 372
interview technique, pilots, 1989
personnel (see Personnel)
situational appraisal, 4111
student (see College student, High school
student, Student)
Self, double, illusion, 3479
ideal, childhood development, 1694
identification with name, 3032
Self-esteem & memory, 1151
Self-insight, measurement of, 4381(a)
Self-mutilation, fakir, India, 527
Semantics, 2342
in child training, 4406
general, & evaluation of religious problems,
1546(a)
& psychodrama, 1197
& holism, theory, 3333
homograph choice, masculinity-femininity
index, 825
& international understanding, 3172
learning, theory, 407(a)
method, 2716
in personality integration, 1536
psychology of, 1587
of psychological theory, 4199(a), 4201
Sensility (see Old age)
Sensation, antennae, wasp, 3905
following starvation, 4301(a)
skin, nerve, regeneration, 37
theory, 1792
vs. perception, in immediate experience,
3342
Sense, chemical, treatise, 384
data, & language, 2818
& physical world, 2852, 2253
perception, psychophysics, Aristotelian
theory, 387
Sensory suppression, 1413
Sentence Completion Test, Murray-McKinnon,
2337
speech perception, 1410(a)
Sequence, response to, 984
Sequential analysis, 4217
equations, derivation, 4218
estimating parameter, 3343
Sex, adjustment in marriage, 4550
attitude toward, social vs. mental hygiene,
2308
Baiga, Oedipus complex, 2382
beliefs, practices, college student, 2347
& character, analysis, 2090
content, & schizophrenic delusions, 2546
development, & homosexuality, 3158
women, 2173
infantile guilt, & hysterical color blindness,
2232
maturation, girl, 1332, 3315
prostitution, ceremonial, Trobriand, 541
role, cultural conflict, 529
somatic androgyny, 456(a)
sterility, psychosomatic, case, 473
theories comparison, 3902
Sex behavior, abnormal, 3377, 3694
classification, 1466
concepts, criticism, 1860
& crime, 3694
eunuchism, 121, 549
fellatio, conditioning, 134
fetishism, case, 2205
frigidity, 742, 1478
impotence, 1479, 2301
inversion (see Homosexuality)
perversion, medicolegal aspects, 152
psychopath, case, 3203
& tickling, case, 3986
cultural influences, 3655
current folkways, 538
dating, college student, 4643
& endocrine functions, 3392
human, 3460
& impurity, 4048
Kaska Indians, cultural dynamics, 3166
in primates, 3458
ranch mink, & sunlight, 723
rat, castration, age hormone, 72
unmarried men, 3152
Sex delinquency,
& abnormal behavior, 3694
concept, 538
incent exposure, 4075
offender, custody problems, 2755
extra-institutional treatment, 2666
promiscuity, girls, personality, 806
psychological factors, 1913
psychopath, 1976
social therapy, 4011, 4012, 4018, 4021,
4030
& suicide, homicide, 558
Sex differences, auditory acuity, pubescence, 50
in behavior problems, 1494
body build, 1818
character traits, 3137
chimpanzee, behavior, 196
in color defects, 4279
in effect of war on children, 3509
emancipation, parent control, college stu-
dent, 214
exercise, physiological effects, adolescence,
2814
health indices, 1546
intelligence, 2343
school children, 4645
test correlation, 4370
in Jung's types, 4379
memory span, 3930
motor performance, maturation, 429(a)
muscle strength, 3459
pain threshold, 692
perception, incomplete pictures, 100
physiological measures, adolescence, 2815
psychologist, career, 969, 970, 1372
school placement, 4645
sleep, dream, 79
somatic reaction to stress, children, 4413(a)
in stereoscopy, 3873
vision, range finding, tracking, 263
word association scale, 825
Shakespeare, W., imagination, 3470
King Lear, psychoanalysis, 836
The Tempest, psychoanalysis, 836, 1057
Shape, figure copying, child, 1337
Shipley-Hartford Retreat Scale, validity, 2494
Shivering, neural mechanism, 2183
Shock therapy, 1891 (see also Psychotherapy)
adolescent psychotic episode, case, 3033
adrenalin, role, 2592
brain changes after, review, 1004
& deep therapy, 4009
effectiveness, 2253
electro-, 499(a)
in acute mania, 3115, 3599
depression, 4446(a)
EEG, 134, 1504(a)
intellectual effects, 493(a), 4450(a)
in old age, 3973
personality effects, 142, 4450(a)
psychoneurosis, 2262, 3094
results, 4494
review, 4483
schizophrenia, Army, 2266
status of, 3605
stimulation, minimum power, 27
multiple, 1503
use, motives, 452
Essex County Hospital, 2268
evaluation & bibliography, 3108
insulin, & conditioned reaction, 1812
& electro-, experience in Army, 3103
in schizophrenia, 3089
metrazol, EEG, threshold, 688
in office practice, 4017
physiological basis, 3034
& psychotherapy, case, 4017
review, 1946, 3118
schizophrenia, child, 2226
psychoanalysis, 2654
& test performance, 4448(a)
theory, 1088
social adjustment after, case work, & 758
post-partum psychosis, 769(a)
schizophrenia, 760
types, values, 1892
Shoplifting, psychological traits, 4070
Shrew, smell sense, 4248
Sibling, crippledness, adjustment, 321
Sign-gestalt, theory of learning, 1044
Signals, warning, effect on psychomotor task,
4323(a)
Significance, statistical, tests, effect of correla-
tion on, 3357
3-dimensional, 3347
Silence, as technique in counseling, 3116
Similarity, meaning, learning interference, 68
Similes Test, group use, responses to, 3138
Simulation of psychopathy, diagnosis, 797
Simultanagnosia, case, 2223
Singleness, of women teachers, 1641(a)
Situation test: psychodrama, 1165
Situational appraisal, selection method, 4111
for selection of leaders, 3720
Size, constancy, & age, 3423
depth configuration in, 3861
review, bibliography, 3423
illusion, suggestibility, 743
perception, motivational determinants,
2107
Skill, manual, time study, 227
Skin, color & social acceptance, 1208
disease, psychogenesis, 2239, 2241, 2246,
2247, 2248
electric phenomena, & nerve injury, 2099
electrical resistance, factors affecting, 2856
nerve injury, 23, 421
galvanic characteristics, measurement,
432(a)
parasitosis, delusion, 163
sensitivity, nerve regeneration, 57
Skull, Lückenschadel, amnesia, personality
study, 151
Sleep, as adaptation, theory, 2184
bio-electric study, 1443
& cortical function, 1746
disturbance, brain lesion, 1435
excessive, & behavior problem, 2512
& hypnosis, EEG, 2864
hypothalamic regulation, rat, 93
infant, dream content, 2196
insomnia, psychoanalytic interpretation,
2962
lack of, rat, 1828
length, depth, 79
motility, pilots, 1825
narcoanalysis, mental disorder, 454
neurology of, 1435
preceding state, 425
walking & activities, 721
Slow-learning, pupil, teaching arithmetic to,
3271
Smell (see Olfaction)
Smiling response, development of, 954
Smoking, cigarettes, effect, 97
compulsive, psychopathology, 459
tobacco, vaso-response from, 3391
Snellen Test, blurred letters, 3424
Social, acceptance, race, sex, school groups, 547
school child, review, 3647
& skin color, 1208
action, description, 2405
adjustment, blind, 467
college student, 1578(a)
& extra-curricular activities, high
school, 3275
feebleminded, training for, 3015
in infantile paralysis, 2707
handicapped, deafness, worker, 236
of hypothyroid child, 1328
mental defective, post-institution,
3018
mirror-tracing test, 1167
physical ability & 1695
after shock therapy, 758, 760, 769(a)
sociometric test, 1206(a)
thyroid patients, 3483
veteran, 1934
war-worker, 1934
affiliation, of urban residents, 2733
agency, & child guidance clinic, 947(a)
directory, 2085
treatment, adolescence, 924(a)
anti-, behavior, & emotional maturity,
4072
aspects of dysphasia, 3130
attitude, age, 324(a)
ethnocentrism, mental rigidity, 542(a)
Hawai World War II, 4548

- measuring, discrimination method, 4521(a)
 personality &, 2333
 behavior, army ant, 2956
 children, & war, 3499
 post-war, 3512
 communication, 548
 dating, college students, 4643
 democratic vs. autocratic groups, 1538(a)
 development, in child, 3303
 school, 1216
 dominance, sex hormone, chimpanzee, 519
 effects of reading on, 4046
 infant, 954
 integrative, 1174
 non-adaptive, learned, mouse, 4318(a)
 purposive values in, 4203
 theory, 3159
 class, child development, 322
 differences, child rearing, 2724
 competence factors in, 1578(a)
 concepts, of adjustment analysis, 2698
 conflict, theory, 1961
 trade-union leader, 2391
 conformity, measuring method, 1219
 control, anxiety & guilt in, 3638
 scientific basis, 674
 credit movement, Canada, 3194, 4564
 danger, mental disorders, 220
 data, factor analysis, 981(a)
 discipline, & mental hygiene, 4478(a)
 discrimination, personality, child, 637(a)
 dynamics, in boys gangs, 3640
 & therapy, with college student, 4495(a)
 effect, of paranoiac reaction, 2990
 effects, of relocation, Japanese-American, 4054
 environment, democratic vs. autocratic, 1538(a)
 events, effects on stereotypes, 3178
 facilitation, influence on test performance, 1674
 group, & anxiety, aerial combat, 3646
 communication hypothesis, 3683, 3685
 identification with leader, 3641
 influence on individual behavior, 4563(a)
 talent, distribution, 211
 homogeneity, community areas, 552(a)
 hygiene, as mental hygiene, 2308
 indoctrination, reading &, 3679
 influence, on attitude & ego-development, 3335
 hoarding, 1444
 or preference, 1561
 of psychopath, 3645
 institutions, life periods, role, 182
 treatise, 1969
 invalidity, manic-depressive psychosis, 2626
 isolation & alcohol addiction, 1212
 knowledge, of men of common sense, 2711
 maturity, test, Vineland, 184, 3773
 organization, biopsychology, 1207
 conceptual schemes, 2719
 family, 1193
 folk society, 1576
 group, 1215(a)
 of industry, 1988
 natural groups, 1180
 status system, 1984
 pathology, textbook, 1186
 problem, adolescent interests in, 1592
 families, survey, Luton, 2736
 illustrating by maps, 1933
 intelligence as, 3148
 scientific method in, 2524
 scientific methodology &, 985
 in social psychology research, 4568(a)
 & technology, 4511
 recovery, case, 1120
 re-education, Germany, 4557(a), 4559(a)
 relations, of industry, 4521
 nursery school children, 1320
 of psychology, 3815
 in restaurant operation, 2016
 study, need for, 1716
 science, achievement test, high school, 2467(a)
 bibliographical citation in, manual, 1360
 contribution to common sense, 2711
 engineer, contribution, 2741
 research in, 1943, 1945, 1946
 research & action, 1940
 teaching through psychodrama, 4153
 scientist, international organization proposed, 3675
 & War Relocation Authority, 840
 situation, conformity response to, 2700
 problem solving in, rat, 4330(a)
 test, story telling, 2334
 status, industry, supervisor, 573
 of occupations, 1183
 parenthood, concept, 523
 as political motive, 3672
 scale, Chapin, evaluation, 829
 stratification, & occupation, 1549
 structure, in industry, 4631
 studies, evaluation in, 1244
 reading skills in, 1643
 test, validity, 595
 survey (see also Opinion poll)
 families in trouble, 1193
 Negro restaurant patronage, 1190
 thinking, realistic vs. fantasy, 2940
 understanding, effect on child development, 1699
 values, work camp experience, 3759
 work (see Social case work)
 worker, child welfare, qualifications, 320
 & marriage counseling, 1967
 psychotherapy by, 1904, 1974
 student, progress criteria, 1280
 Social case work, Catholic viewpoint, 1172
 child, 1204, 1704
 in child placement, 1701
 child welfare, training, needs, 2813
 disabled, case load quota, 2663
 families, mental hospital patients, 2258
 family, 820, 2396, 2735
 disorganization, 1972
 with foreign-born, 1555
 foster homes, study of, 2732
 groups & Y.M.C.A., 2738
 helpfulness, principles, 2646
 history, military use, 162
 in illegitimacy, 1580
 interview, initial, 2686
 & marriage counseling, 1967, 1974, 2735, 192
 measure of progress, 2360
 & medicine, 762, 771
 for mental patients, 3607
 military, 115
 methods, 4504
 military use, 162
 mothers, cerebral palsy, 2255
 unmarried, 1217
 old age, 2677
 older client, 2687
 periodicals, bibliography, 2085
 prediction of delinquency, 2369
 in prisons, 2763
 psychiatric, 2290
 with delinquents, 2414
 history, 4002
 psychiatric problems, limitations, 2682
 psychological tests in, 2356
 & psychosomatics, 1140, 2251
 psychotherapy in, 789, 790, 3083
 race, caseworker &, 2376
 records, use, 2539
 relief, psychological principles, 85
 rural foster care, 1693
 schizophrenia, therapy, 758
 selection of patients, 1899
 & sex delinquency, 4011, 4012, 4018, 4021, 4030
 student progress, criteria, 1280
 theory, 2355
 treatment, 815
 transference, 139
 & vocational counseling, 2471(a)
 Social factors in, alcoholism, 3556
 behavior, rat, 1577
 child development, 2810
 crime, 224
 delinquency, 1598
 emotions, 1445
 engineering, 2432
 ethics, 2699
 House of Commons, membership, 1973
 industrial management, 4593
 industry, strike, 2411
 judgment modification, 2166
 marital adjustment, 2734
 mental disorder, 1849
 perception, 2107
 personality integration, 1536
 public opinion, 3678
 psychosomatics, 2240
 school curriculum, 4169
 veteran intolerance, 4525(a)
 work performance, 2397
 Social psychology, bibliography, 536
 characterology, 672
 of chronic disease, 1888
 clinical methods in, 1948
 of communication, 4362
 of cultural factors, 4547
 culture research, methodology, 4516
 & disability, review, 1153
 in England, antique, 3642
 & foreign policy, 1937
 of German Nazis, 4057
 Gestalt principles, 526
 of government, 1567
 & group understanding, 4510
 health indices in, 1566
 of institutions, 1969
 in international affairs, 3674, 3681, 3682
 international research in, 3684
 journal, new, 3806
 methodology, 1943
 methods, place of current social problems, 4568(a)
 modern novel, analysis, 3149
 moral system, 2403
 national growth, measurement, 3650
 of occupations, 1549
 opinion poll vs. survey in, 1944
 & personality, 4375
 & politics, 1938
 problems, Canadian Social Science Research Council, 3154
 problems of combat aviation crews, 4045
 psychiatric concepts in, 2206
 research, method, 1947
 research needs, 3675
 research problems in, 3674
 Rorschach, 2326
 of rural adolescents, 1589
 of social credit movement, 3194
 of strike, 2411
 study of man, 1716
 textbook, 4050
 Thomistic theory &, 4196
 trends, 2363
 & UN, 4068
 of war, 2354, 3671
 of war bond drive, 2406
 Sociality, in preadolescent boys, 1558
 Societry, definition, 3614
 journal, new, 2086
 Society (see also Social, organization)
 classification of, 4047
 comparative study, concepts, 1576
 & criminal, 2756
 cultural theory, research, 4516
 & education, 1303
 engineer in, 2741
 industrial, labor in, 3225
 industry &, 4631
 insect, & development, 2739
 institutions, 1969
 human vs. animal, 4512
 moral system, 2403
 & personality, Thematic Apperception Technique, 1957
 psychological characteristics, 4551
 Society of Experimental Psychologists, picture, 4219
 Sociodrama in leadership training, 3644
 & small community problems, 3676
 Socioeconomic status, & attitude toward discipline, 1689
 child rearing &, 2724
 & college achievement, Negroes, 4542(a)
 & criminality, 1221
 & group affiliation, 2733
 & health, 1566
 of House of Commons members, 1973
 intelligence, test score, Negro, white, 204
 & intelligence quotient, child, 1334
 measurement, 829
 opinion poll, Psychological Corporation, 202
 & perception, 2107

- & personality, 1534
- & psychiatric symptoms, child, 1071
- & reproductive pattern, 2386
- & school achievement, 1554, 3257(a)
- & vocational choice, 1923(a)
- Sociology, common sense, role in, 2711
- & criminology, 2768
- & education, 1293
- England, critique, 3642
- ethical aspect, 2699
- methods of research, 3160
- as natural science, 4508
- publications, verifiability, measurement, 2718
- scientific principles in, 4518
- textbook, 4050
- theory, 1543
- Sociometric Test, instructions for, 1198
- Sociometry, 2364
 - applications, classroom, 1276(a), 1297(a)
 - community, 1195(a), 1211(a)
 - high school, college, 1248(a)
 - mental hospital, 1206(a)
 - & attitude homogeneity, 1209(a)
 - aviation personnel, 2447
 - child, 6th grade, 1542
 - war-boom, community, 1571
 - classroom, 1276(a), 1297(a)
 - community, 1195(a), 1211(a)
 - data analysis method, 2362, 2366
 - developments, 1941-45, 2363
 - high school, college, 1248(a)
 - industry, 2437
 - leadership tests, 3150
 - mental hospital, 1206(a)
 - method, 2367
 - political cleavage, Germany, 2395
 - reciprocity, measurement, 977
 - social relationships, problems, 1201
 - testing, 1196
 - Toronto studies, 1200
- Sodium chloride, preference rat, 4293(a)
- Soemmering, S. T. *Organ of the Soul*, anniversary, 3367
- Soldier, British, morale, 1616
- criminals as, 1596
- emotionally unfit, 1126
- enuresis, 1073, 1149
- hearing loss, battle noise, 2914
- illiterate, Terman Vocabulary test, 1307
- maladjusted, discharge, 2207
- maladjustment, types, 2969
- mental disorders, Indian, 2613
- mentally deficient, psychoneurosis in, 3003
- narcolepsy, case, 1461
- Negro, emotional problems, 3180
- neurotic, group psychotherapy, 1506
- officer, paranoiac, social reactions, 2990
- prisoners of war, psychoneurosis, 2628
- psychosomatics, gastric diseases, 2639
- psychosomatic complaints, non-combat troops, 3570
- reading disability of, 1672
- sexual neurosis, 1479
- stuttering, 1492
- training, civilian habit, 862
- Sonar, personnel, selection, 1991, 4097
- Son-father relationship, dream analysis, 1210
- Soul, concept, 15
 - Plato, 971
 - locus, Soemmering, S. T., 3367
- Sound, & aphasia, 1487, 1488(a)
 - battle, in treatment of combat fatigue, 1894
 - diet, convulsion, hamster, 484(a)
 - energy absorption by ear, 3893
 - intensity, at two ears, 3449
 - intensity units, 3890
 - localization, 1029
 - head interference, 3449
 - with vestibular defect, 3886
 - loud, & stereo-range finding, 3883
 - measurement, bibliography, 1781
 - source, apparatus, 2073
- South (U. S.), test norms for, 4095
- South America, psychology in, 347
- Southbury Training School, program, 3007
- Southern Society for Philosophy and Psychology, constitution, by-laws, proceedings, meeting, 1946, 341
- Space, art, perspective, 1935
- learning (see Learning)
- orientation, brain, lesion, case, 146
- perception, 698
 - acuity, 382
 - anisokonia, stimulus pattern, 32
 - in aviation, 1803
 - binocular, 1029
 - binocular, target size, 4268
 - binocular vergence, 4266, 4267
 - development in children, 3865
 - distance vs. dimension, 2889
 - effects of aircraft canopy, 4618
 - effects of glass distortion, 4278
 - figural after-effects in, 3421
 - & flying ability, 380
 - in landing aircraft, 3253
 - & projection, motion pictures, 2575
 - & size constancy, 3861
 - in strabismus, 3410
 - stereoscopic stimuli, 1030
 - theory, 4277
 - threshold acuity, 4254(a)
- symbolism, child, 323
- Space relations, formboard test, 4663
- Space-time system, of animals, 1441
- Spanish America, prisons, 1982
- Speaking (public), effectiveness, climax vs. anti climax order, 2352
- inference mechanism, 1586(a)
- rating of, analysis, 2370
- word meaning, audience variation, 1939(a)
- Spearman, C. E., factor theory, history, 4369
- obituary, S., 2552, 3362
- portrait, 5
- Speech, comprehension, visual & auditory stimuli, 1399(a)
 - development, bilingual child, 3505
 - infancy, 936, 1176, 1178
 - school child, 1691(a)
 - dynamics, twins, 2596
 - educational problems, 3583
 - hearing loss for, 2913
 - tests, 2915
- Intelligibility, & audiometer, 3887
- communication equipment, aircraft, 4145
- enclosed space, 1789(a)
- factors in, 3438
- at high altitudes, 3443
- masking of, 2573, 3888
- throat microphone, 3337
- in judgment of nationality, 1565
- noise, threshold, psychogenic deafness, 127
- perception, sentence test, 1410(a)
- persuasion in, theory, 1547(a)
- re-education, in elementary school, 1657(a)
- retardation, & feeble-mindedness, case, 3014
- scientific study of, 1551
- sounds, development in infancy, 3312, 4410(a)
- students, characteristics, 1526(a)
- textbook, 1187
- Speech defects, 2216
 - & adjustment, child, 1486(a)
 - aphasia (see Aphasia)
 - approaches to, 3583
 - cerebral palsied, 3543, 3755
 - training, 1335, 1493
 - classification, 1496, 4475
 - cleft palate, 3128
 - treatment, 1491
 - correction, drama, play experience, 1531(a)
 - following surgery, 3132
 - in public schools, 1662(a)
 - delayed speech, case, 937
 - & dental defects, 2614
 - description & treatment, 4475
 - etiology, 143, 1117, 1490(a)
 - parent personality, 1497, 1498(a)
 - review, 3998
 - group therapy, 3580
 - & larynx ulcer, 3584
 - neurotic pattern, case, 1188
 - nomenclature, 3586
 - parental maladjustment in etiology, 1497, 1498(a)
 - psychodrama in therapy, 1144, 3588
 - & school achievement, 3582
 - stuttering (see Stuttering)
 - teacher diagnosis & correction, 3997
 - in war-evacuated children, 3509
- Speed, card sorting, vs. age & school grade, 2955
- manual skill, time study, 227
- performance, & muscle action potential, 2859
- Spelling, & achievement, correlations, 3763
- errors of good & poor spellers, 3380(a)
- & intelligence, correlation, 3763
- remedial, 599
- test, 298
- Spherophacia, light reflexes, 2137
- Sphygmograph, 962
- Spider, E. insularis, behavior, 102
- Spinal animal, behavior, 1049
- conditioning of, 2582, 2928, 3467, 3468
- coordination, 431(a)
- maintenance, 88, 423(a)
- Spontaneity & personality, 1523(a)
- psychodrama, meaning, 4016
- Squint (see Strabismus)
- Stage fright, nature of, 3917
- St. Paul, psychoanalytic interpretation, 2157
- Stance, effect of fatigue, 3910(a)
- Standard deviation, computing method, 2076
- Standard Profile Chart, 3775
- Standardization, intelligence test, 2491
- Stanford-Binet Test, method of presentation, 3631
- Startle, & visual acuity, 3859
- Starvation, rehabilitation following, 4297(a), 4301(a), 4303(a)
- psychology in, 85
- Statistics (see also Correlation, Factor analysis, Reliability, Sampling, Variance)
 - accuracy, degree of, 3344
 - analysis by difference frequencies, 2834
 - analysis of war causes, 4049
 - bibliography, 2529
 - category predictions, 4212(a)
 - chi square distribution, approximations, 349(a)
 - classification of population distances, 3355
 - in consumer research, textbook, 3805
 - critical ratio, calculation, 991
 - dependability, measures of, 2081
 - in educational measurements, 2080
 - engineering, sampling economy, 647
 - event sequences, probability, 3353
 - exercises, work sheets, 655
 - graph model, 3-dimensional, 2829
 - of growth curves, 2836
 - Hottelling's weighing problem, 1354
 - & IBM equipment, 989
 - "inefficient," value of, 1355
 - laboratory, Purdue, 271
 - learning, criteria, 1036
 - Markoff chains, 3333
 - means difference, significance, test, 4
 - methodology, review, 1945-6, 3798
 - methods, theory, 2
 - multivariate, & Wishart distribution, 1350
 - nomogram, rank, scores, 667
 - population parameters, estimating, 1721
 - probability, guessing, 350(a)
 - in psychiatry, social aspects, 780
 - psychological problems in, 668
 - reciprocity, measurement of, 977
 - review, 1946, 3803
 - standard score, direct reading, scoring machine, 10
 - tables, probability of runs, 3346
 - in test construction, AAF, 3721
 - research, 1943-6, review, 3293
 - textbook, 670, 980, 1356, 1357, 1721, 2077, 2835, 3354, 3801
 - Tschebyschev's inequality, 3342
- Stature, crime, 560
- Status (see Social status)
- Stealing, by children, clinical study, 3204
- Stekel, Wilhelm, biography, 3812
- Stenography, achievement prediction, 1624
- proficiency, test for, 4665(a)
- Stepmother, attitudes toward child, 949(a), 2047
- Stereoscopy (see also Rangefinder, Space perception)
 - acuity, & anoxia, 3858
 - clinical aspects, 382
 - exercise &, 3855
 - hyperventilation, 3856
 - measuring, 4265
 - metrazol &, 3857
 - posture &, 4264
 - pupil diameter, 3859
 - changes in, 1583
 - chromatic dispersion, eye, 3864
 - depth perception, stimulus, 1030

- fatigue, motivation, 59
& intelligence, 1802
retention of ability, 3860
sex differences, 3873
stereo-episcopes, 3
test, apparatus, 3339
 ekonometer, 245
 evaluation, 3853
 group, 3854
 performance, 1023(a)
 rangefinding, 243, 244, 259, 260
 stimulus size &, 3874
theory, 4277
threshold, vs. vernier, 4254(a)
trainer, bracketing techniques, 3878
 inter-eye-piece distance, 3875
 knowledge of results, 3943
 & loud sounds, 3883
 moving target, 3921
 performance after layoff, 3876
 reliability, 3877, 3881
 target position, 3879, 3880
 Tufts, 3795
training of, apparatus, 3795
Stereotype, constancy of, 3178
 minority Americans, magazine fiction, 183
 national groups, college woman, 1941-45, 546(a)
 racio-national, held by Negro, 1951
Sterility, psychosomatics, case, 473
Sterilization, of feeble-minded, 3004
Steroid hormones, & maze learning, rat, 3941
Stickleback, displacement reactions in, 3919
Stiles-Crawford, effect, theory, 1411
Stimulation, sensory, & EEG, alpha rhythm, 1389
Stimulus, duration, & hearing thresholds, 1782
 Fechner formula, experimental check, 373(e)
 generalization, conditioning, 420(a)
 in stereoscopic depth perception, 1030
 variation, & response generalization, 1816
 verbal, complexity, concept formation, 411(e)
 visual, auditory, & speech comprehension, 1399(a)
Stomach, muscle action potential, 2175
 secretion under tension, 1882
Story plot in TAT & autobiography, 1156
Story telling as projective technique, 2334
Stouffer's law, & intergroup contacts, 1175(a)
Strabismus, accommodation, convergence, 428
 "blindspot syndrome," 2908
 in children, treatment, 4269
 etiology of, 2139
 orthoptic training, 3871
 retinal correspondence in, 2887
 sensory retinal relationships in, 2887
 space perception in, 3410
Strength, in adolescence, 4412
 girls, & menarche, 3501
 measurement, variability, 724
 muscular, sex differences, 3459
 vs. body build, 4411
Stress, army rank, neurosis, 132
 intellectual control, Rorschach, validity, 2803
 resistance & motivation, pilot, 2171
 somatic reaction, sex difference, 4413(a)
 woman, mental hygiene, 779
Strike, social psychology, 2411
Strong Vocational Interest Blank, 1286
 scoring, Hanke's machine, 2537
 vs. Kuder Preference Record, 4610(a)
Student (see also College student, High school student)
 Bible Institute, interests, personality, 505(a)
 course rating, 294
 engineering, selection, 1298
 India, intelligence distribution, 4162
 knowledge, gain measurement, 299
 medical, achievement prediction, 2024
 effect accelerated program, 3956(a)
 Graduate Record Examination, 296
 selection by tests, 4650(a)
 personality, 506(a)
 reading ability, College Board Examination, 289
 scholarship, deficiency, 301
 social work, progress criteria, 1280
 success, prediction, pilot training, 2000
 trade school, physical disabilities in, 3764
Student's "T," distribution of, 1351
Study, methods, improvement, 1658
 skills, diagnostic test for, 3751
 time budgeting, & achievement, 3279(a)
Stuttering, & Army adjustment, 1492
 cure, case, 2608
 & delinquency, 1599(a)
 diagnosis, 2307
 in general medical practice, 4476
 & handedness, Greek children, 3129
 parent-child relationships, 3587
 parents & correction, 3999
 personality types & treatment, 4001
 prevention, 2044
 psychodrama, 1102(a), 3581
 psychotics, 747
 sex differences, 1494, 3587
 speech nonfluency &, 2307
 therapy, 1492
Style, treatment, psychic, 2727
Style of radio presentation, & attitude modification, 2344
Subconscious, Goya etchings, 217
Submarine, personnel selection, 2784
 service, psychiatric casualties, 2970
Substitute behavior, motor, intellectual child, 639
Success, experience, college student, 1537
 failure, effect on learning, 2157(a)
 & personality, artist, 2330
 prediction, in engineering training, 2480
 supervision, rating, testing, 250
 in training, 2481
 prominence & scholastic standing, 2462
Sucking, infant, newborn, 94
Suffering, of prisoners, factors, 2413(a)
Suggestibility, & hypnosis, 1455
 & illusion, 743
Suggestion, concept, Freud, 732
 history, politics, treatise, 106
 therapy, in hysteria, 4486
 in obsession, 3086
 & visual perception, 3472
Suicide, attempted, psychology of, 2981, 2994
 child, 956, 957, 1687
 last writings, analysis, 2760
 methods of, statistics, 3516
 psychology of, 2991, 4430
 rate, & weather, 3519
 sex factors in, 558(a)
 twins, 1980
Super ego & conscience, 659(a)
Superior, ability, placement of, 3723
 college students, program, 4652
Superstition, of child, psychology, 2817
 New Mexico, Indian, & Spanish, 3179
Supervisor, evaluation, 572
 in industry, training, status, 2783
 tests, validity, 250
 training of, 2438, 2779
Suppression, sensory, 1413
Survey, crippled child, education, U. S., 1896
 finding, interpretation, errors, 199
 interview, federal government, 521
 method in economic psychology, 1177
 of race prejudice, nations, 1953
 sampling methods, 345(a)
 school children, working, family status, 2041
 technique, 520, 534
 vs. opinion poll techniques, 1944
Survival hypothesis & parapsychology, 1058, 1065
Sway & vision, 1046
Sweat, cortical injury &, 2619
 gland, distribution, output, 1052
Syllogistic reasoning, distorted use in attitude measurement, 831(a)
Symbolism, dress, 545
 normal vs. pathological, 4431
 psychiatry, theory, 63
 psychoanalytic, 2960
 semantics, learning theory, 407(a)
 space, child, 323
Sympathy, antipathy, 179
Synapse, learning rate, measurement, dog, 70
 & nerve action, 1749
 review & bibliography, 2862
Synoptophore, reliability, 1028
Syphilis, of nervous system, & vision, 1114
 social aspects of treatment, 2217
Szondi, L., fate theory, 4206
"T," distribution of, 1351
Tables, conversion, foot lambers vs. foot candles, 2899
 illumination requirements, 2899
 probability of runs, 3346
Talent, distribution, eugenics, 211
Taste, blindness & diabetes, 4249
 food selection, 439(a)
 olfaction, treatise, 384
 sense, in fish, 3404
 theory of, 2921
 thresholds, cockroach, 2880
 wireworm response, 3405
Teacher, adjustment, effect on pupil adjustment, 2449(a)
 attitude, & discipline, 4654
 & child behavior problems, 3761, 4152, 4656
 -child relations, 555, 2206
 engineering, qualifications, 2029
 as leader in classroom, 3748
 as marriage counselor, 2387
 -parent, relations, 555, 4171
 personality, adjustment efficiency, 2787
 classroom behavior, 2786
 evaluation, 1171
 traits, 4638(a)
 personnel, 2424
 qualifications, training &, 1654
 selection, 1639, 2031
 assessment, 608
 preservice, 1640, 1642
 speech diagnosis by, 3997
 training, in child development, 2039, 2043(a)
 & qualifications, 1654
 selection for, 2474
 student personnel, 2473
 woman, emotional problems, 1641(a)
Teaching, attitude toward, 2482(a)
 college, student ratings of, 4170
 efficiency, prediction, 606, 610
 personal data, evaluation, 620
 evaluation, in university, 4648(a)
 goals of, understanding, 1259
 in social studies, 1244
 group management, 1266
 improvement, achievement tests, 4158
 manuals for, naval aviation, 4154
 measuring results of, 3739(a)
 methods, in flight instruction, 4163
 psychodrama as, 4153
 music, review, 2714
 professional problems, 2031
 psychological principles, textbook, 288
 remedial, English, 2454
 types, student attitude toward, 3740
 understanding pupils, 1649
Technology, & social problems, 4511
Telegraphy, work efficiency, heat, 583
Telepathy, experiment, 2198
 in psychoanalysis, 2191, 2201
Temperament, Galen's types, 4383
 & love, artists, 3901
 syndromes, Hunn-Wadsworth scale, 3475
Temperature, cold, 1048
 crime, 360
 & fish movements, 3918(a)
 heat, work decrement, telegraph operators, 583
 high, behavior efficiency, 1831
 & hoarding, 1829
 low, effect on efficiency, 2949
 & motion sickness, 3924
 respiration, rate, mammal, 87
 shivering response, 2183
Tension, in learning flying, 4606
 measurement, 2360
 migraine, dream analysis, 112
 muscular, & mental work, 1447
 & motor learning, 1056
 & personality, 1436
Terman Group Test, Spanish (Peru) standardization, 3284
Terman, L. M., portrait, 1369
Terman Vocabulary Test, validity, illiterate soldiers, 1307
Terminology, aviation, 1998
 light, 356
 mental disorder, American Psychiatric Association, 148
 psychology, interview, 114
 rating scale, descriptive words, 270
 speech defects, 1498, 3586

Tests & Testing (see also Apparatus, Educational measurement, Factor analysis, Inventory, Projective techniques, etc., & specific topics)
administrators, selection, validity in, 905
bibliography, 1310
brief tests, 2801
calibration for categorical classification, 4208(a)
clerical aptitude, 1624
clinical use, 2273, 2527
construction, cut-off scores, 2035
factor theory, 2490
item calibration, 2802
correlation, reliability, 2488
formulation, special subjects, 4586(a)
qualitative, reliability, method, 8
job performance, 302
score equivalence, 1677
selection, gross score weights, 310
weighting "wrong," 4210(a)
coordination, 2-hand, practice effects, 1836
diagnostic, & psychiatry, 3122
efficiency, cost-utility as measure of, 3796
evaluation, Navy, 622(a)
standards, 625(a)
in industry, 2442, 2780, 3238, 4588, 4599(a)
bibliography, 3222
local norms, 4095
program introduction, 3216
intercorrelations, invariance, age, 75
in Japan, status, 4211(a)
by laymen, 2429
machine scoring, 3770
Hankes, 2537
in military services, British, 3245
multiple choice, 1682, 1683
item, response types, 3294
objective, use, critique, 598
in personnel administration, 3709
physically handicapped, test battery 3630
profile, chart, 3775
qualitative attributes, factoring, method, 4213
reliability, item analysis methods, 3799
split-half method, 1675
repetition, effect on score, 2496
research, review, 1943-6, 3286
response-bias, compensation for, 4382(a)
results, effect shock therapy, 4448(a)
interpretation to group, 3269
score, age, education, adult worker, 901
analysis, Bernreuter, 1532
comparability problem, 1312
differences, in guidance, 4609(a)
homogeneous group, variations in, 3000
performance quotient, 3209(a)
qualitative analysis in, 4209(a)
rights vs. wrongs, 4209(a)
selection in counseling, 8
& suppressor variable
statistics, implication, 91
review, 1943-6, 3286
validity, criteria, 308
& item analysis, 1677
job information, 502
personality, 502
& response set, 2
values in office selection
in Veterans Administration
in vocational counseling
Tests (by name)
AAF Qualifying Examination, 1
ABC, Lourenso Filho's, 208
ACE Psychological Examination, vs. Otis group IQ, 1677
Alpha Group Examination, effect of electroshock, 4372
American Transit Motor Ability Test, 886, 887, 888
Army Activities Preference Blank, 4523(a)
Army General Classification Test, 2798, 4174
Army General Clinical Abilities Test, 3777
Arithmetic Readiness Test, 3771
Army Trade Test, 589
Arthur Performance Scale, II, 4658
Ballard Intelligence Test, Spanish, 3293
Biographical Case History, 4576(a)
California Test of Mental Maturity, 3778
Cardall Practical Judgment, 2492

Chicago Primary Mental Abilities, 2497
Clerical Perception Test, 3766
Concept Formation Test, 4660(a)
Construction, Kelly vs. Cube, 3904
Cornell Selectee Index, vs. Neuropsychiatric Screening Adjunct, 1512
Creative thinking test, 1431
Decision time test, 1824
Delinquent detection scale, Navy, 4036
English competence test, 4173
English Usage (Bean), for clerical workers, 874
Fay Drawing Test for Mental Ability, 4178
Gates Primary Reading Tests, Belgian adaptation, 284
General Educational Development, 277, 595
Goodenough Draw-a-Man Test, 4370
Graduate Records Examination, medical student, 296
Gregory Academic Interest Inventory, 3774
Group Oral Performance, 904
Group Part-tone Hearing Test, 3445
Hand Tool Dexterity, 4095
Hand Strength, dynamometer, 81
Harris Test of Lateral Dominance, 4662
Hearing Multiple Choice, 1406(a)
High School Entrants, Test for, 3772
Inductive Reasoning Test, 3767
Infant Intelligence (Gilliland), 624(a), 4661(a)
Ishihara Test, 4263
Kent-Shaw Formboard, Groves modification, 2804
Kinzer-Horrocks Formboard, 4663
Kohs Block Design, vs. Rorschach, 4391(a)
Kopas Wage Earner Battery of Tests, 2451
Kuder Preference Record, 885, 1295, 3244
Kuhlman-Anderson, 3283
Kwalwasser-Dykema Tests of Musical Talent, 3738(a)
Levy Movement Cards, 4401(a)
MacQuarrie Mechanical Ability, 914, 1678, 2799
Mashbury Serial Coordination Test, 1832
Memory-for-Design, scoring, 3022
Mental Health Analysis, 3779
Merrill-Palmer Preschool, 4366(a)
Metropolitan Readiness Tests, 2498
Military Knowledge, 4600
Minnesota Clerical Test, 4095
Minnesota Journalism Aptitude, 3287
Minnesota Preschool Test, 286
Minnesota Rate of Manipulation Test, 3769, 3915, 3916, 4177
Moos Social Intelligence, 3162(a)
Motivation Indicator, 3768
Multiphasic (see Minnesota Multiphasic Inventory)
Musical ability tests, 4664(a)
Neuropsychiatric Screening Adjunct vs. Cornell Selectee Index, 1512
NRC Neurotic Inventory, 4175, 4500
Ohio State Flight Inventory, 1990, 2006
Oseretsky Motor Test, 3776
Otis Self Administering Test, 1681
Pattern Perception Test, 2800
Personal Check List, 4039
Porteus Maze, 4370
Prognostic Test of Mechanical Ability, 4668
Purdue Mechanical Adaptability, 579
Relative movement test, 4097
Roeder General Aptitude Profile, 4666(a)
Rorschach Test (see in main alphabet)
Rotter Level of Aspiration Test, 3135
Seashore Measures of Musical Talent, 3704, 3738(a)
Seattle Card Sorting, 905
Self Interview Inventory, 3121
Sentence Completion, Murray-Mackinnon, 2337
Shipley-Hartford Retreat Scale, 2494
Similes Test, 3138
Situation Test (Moreno), 1165
Sociality Test, 1558
Sociometric Test, instructions, 1198
South African Handwriting Scale, 3745
Standard Profile Chart, 3775
Stanford-Binet, presentation method, 3631
Stenographic proficiency, 4665(a)
Study skills diagnostic test, 3751

Symbols Scale, preschool form, 300
TAT (see Thematic Apperception Test)
Terman Group Test, Spanish edition, 3284
Terman Vocabulary Test, 1307
Thought type, story completion, 2940
Time Appreciation Test, 305
Van Allyn Job Qualification Inventory, 1295, 2472
Vimy Code Letter Test, 3291
Vineland Social Maturity Scale, 184, 3773
Visual Retention Test for Clinical Use, 4659
Wechsler-Bellevue Scale (see in main alphabet)
Wechsler Memory Scale, alternate form, 919
World Test, 2317
Tetrad difference, criterion, 3951
Textbooks, child, care, 2508
development, 1685
guidance, 4502
problem, school, 4656
psychology, 2505, 2809
college orientation, 875
comparative psychopathology, 3525
conference leadership, 1994
criminology, 3702
educational guidance, 1664
encephalography, 1748
evolution, human, 1047
factor analysis, 2833
graphology, 3485
industrial personnel, 3222, 3722
learning, 403
logic, scientific method, 1034
marriage, family, 2393
military leadership, 4603
neural anatomy, 4244
old age, 1919
personality, 170
psychiatry, 1124, 1851, 2968, 3977
psychology, 964, 1714, 2084, 2824, 4188, 4195
abnormal, 476, 968, 4442
adolescence, 7, 3322
applied, 11, 654
aviation, 4150
child, 2505, 2809
clinical, 145, 1914
experimental, 966
Gestalt, 3787
nursing, 1500, 1501
social, 4050
reasoning, 394, 3471
retina, 3846
scientific writing, 3809
social pathology, 1186
sociology, social psychology, 4050
speech, 1187
statistics, 655, 670, 980, 1356, 1357, 1721, 2077, 2835, 3354, 3801, 3805
teaching, psychological principles, 288
time & motion study, 2433
Thalamus, cortical projection, 3394
Theater, audience, laugh patterns, 1540(a)
Theft, motives, atypical, 3690
Thematic Apperception Test, administration, 2332
child, problem, responses to, 3632
clinical use, 814
complementary patterns, kin, 2331
in culture-personality relations, 1957
of disturbed children, 4499(a)
interpretation, 2332, 4397(a)
norms, 4374(a)
psychiatric use, 1525(a)
still vs. moving pictures, 4377(a)
story plot & personal experience, 1156
vs. autobiography, 2318
subject interpretation value, 2315
3-dimensional, 4667(a)
Therapist, death of, patient adjustment to, 3620
function in psychotherapy, 4493
psychiatrist vs. psychologist, 2279
required personality, 3085
Therapy (see also Psychotherapy)
conditioning, for alcoholism, 1900
CO₂, neurosis, 1897
educational, theory, 3757
expressive art as, 4503
institutional, children's behavior problems, 4014
malaria, syphilis, social aspects, 2217

- motion pictures in mental hospitals, 4482,
 4488
 physical vs. psycho-, 4496
 recreation in, 4492
 Thiamine, action on cerebral cortex, 2561
 Thirst, diabetes insipidus, potomania, dipso-
 mania, 122
 Thomas Aquinas, dynamic psychology, 986
 Thomistic philosophy & social science, 4196
 Thought (*see also* Concept, Creativeness), 2159
 child, hearing defective, 4425(a)
 investigating, 2038
 concrete, abstract, configurational princi-
 ples, 64
 in criminal learning, 4358(a)
 critical, textbook, 1034
 development, relationships, comprehension,
 child, 318
 disorders, psychotics, sorting test, 4506(a)
 logical, school training, 4357
 motivation of, 2583
 non-logical, 4357
 object of, 2151
 realistic vs. fantasy, 2940
 retention of, 1811
 textbook, 394, 3471
 tests for, need, 4357
 types, testing, 4357
 story completion test, 2940
 Threshold, audibility vs. tonality, 4290(a)
 brightness contrast, 1013(a), 2891
 convulsion, EEG, metrazol, rabbit, man,
 588
 form, motion, & displacement, 3418
 gustatory, cockroach, 2880
 light, form, night vision, 379
 olfaction, blowfly, 1772
 pain, drug effect, apparatus, 1347
 guinea pig, 2141
 in neurotics, 3552
 variability, 54
 pure tone, binaural vs. monaural, 3446
 sensory, for industrial solvents, 2138
 speech, noise, psychogenic deafness, 127
 vernier & stereoscopic, 4254(a)
 of vibratory perception, 1793
 vision (*see* Vision threshold)
 Thumb sucking, etiology, 1686
 Thyroid, hyper-, & fetal development, rat,
 3958
 hypothyroidism, learning effect, 1833
 & intelligence quotient, 945(a)
 Thyroidectomy, patients, socio-psychological
 characteristics, 3483
 Tic convulsif, psychosomatics, 1150
 Tickling, sex ideas & case, 3986
 Timbiri (Brazil) culture of, 3175
 Time, appreciation, test, 305
 art, perspective, 1935
 in conflict situation, measure, 1824
 error, psychophysical methods &, 2576
 exposure, & color perception, 2903
 factor, choice preference, 65
 interpolated learning retroaction, 706
 interval measurement, apparatus, 1720
 in learning, 3466(a)
 for marital adjustment, 2734
 perception, 698
 in depressive states, 2886
 rhythm, experience, 213
 short intervals, recall, 2939
 space, system of animals, 1441
 spending, as value, 1550
 study, manual, 227, 2428
 textbook, 2433
 Tinnitus, cause of, 2911
 Tobacco, & vasodilatation, 3391
 Tone, consonance, cultural theory, 2920
 duration, pitch discrimination, 704
 masking, by noise, 3888
 & types of deafness, 3439
 repeated, loudness, 4285(a)
 threshold, vs. audibility, 4290(a)
 Touch, discriminative ability, deaf child,
 1408(a)
 vs. vibration sense, 2884
 Tracking (*see also* Rangefinder)
 accuracy, factors, 1229, 1230
 handwheel design, 1228
 illuminated oscilloscope, 1231
 corrective adjustments, 4633(a)
 error curves, characteristics, 4632(a)
 learning, with knowledge of results,
 4349(a)
 performance, & alertness, 4308(a)
 Tractus solitarius, in hearing & psychosis,
 theory, 2921
 Traffic, intercity movement, 2715
 offender, treatment, 2766
 Training, aids, evaluation, pilot instruction,
 1999
 of child welfare workers, needs, 2813
 foreman, methods, 4592(a)
 of high school counselors, 2793
 industrial employees, program, 4598
 in-service, military psychology, 1101
 mental hygiene, standards, 1903
 military, device, Japan, 582, 586
 gunnery, 228
 literacy, Negro, 567
 methods, values, 4157
 prediction of success, 2481
 premise learning, rat, 710
 of supervisors, 2779
 Trait, mental, variability, 1810
 Transfer, & discipline, concept of, 1274
 & language development, child, 1037
 of place learning, maze, 2168
 of training, discrimination, learning,
 4341(a)
 in education, 1650
 in psychology courses, 3328
 Transference, casework, 139
 conversion hysteria, case, 118
 psychoanalytic, Freud vs. Jung, 4200
 resistance, 107
 Transit employee, motor ability test, manual,
 886
 Personal Reaction Test, 887
 placement interview manual, 866
 selection, manual, 860
 standard examination, manual, 888
 Trauma, birth, psychoanalysis, 1845
 Trend, test for, 1032
 statistics & variance, 4215
 Trial, criteria, experiment, 346(a)
 distributed, maze learning, 3469
 fluctuation, test for trend, 1032
 Triplets, language development, 1560
 Triston de Cunha, culture, isolated community,
 4538
 Trophallaxis, & social behavior, 1207
 Tropism, geo-, hydra, 1923
 Turtle, sea approach, 422(a)
 Truancy, adolescent, treatment results, 938(a)
 factors in, 2486(a)
 theory, 2287
 Truth, establishment of, 2052
 Tshebychev's inequality, 3342
 Tuberculosis, psychogenic factors, 2238
 psychotherapy in, 1893
 Turtle, sea, approach, 422(a)
 Tutoring, as psychotherapy, 1499
 Twins, handwriting, 3462
 hereditary factors, 2597
 resemblance, 1841
 maturation, 1552(a)
 mental disorder, 483
 mirror-writing of, 3462
 personality differences, case, 3564
 speech dynamics, heredity, 2596
 suicide, psychopathology of, 1980
 Type, advertising, & reader interest, 3248
 legibility, 386, 703
 Typewriting, achievement, prediction, 1624
 Typology, factor analysis, role, 2540
 Jung, group difference, 4379
 personality, critique, 4435
 Sheldon, verbal facility, 2942
 somato-, & personality characteristics,
 3487
 Ulcer, duodenal psychosomatics, EEG, 1886
 peptic, psychogenesis, 1881, 4473
 vs. non-ulcer dyspepsia, in soldiers,
 2659
 personality of patients, 3991, 3992
 symptoms, significance, 2637
 Ultraviolet, & visual thresholds, 3435
 Unconscious, history of concept, 446
 language, dream content, 446
 Understanding, evidence of, 1264
 measurement of, 1272
 in agriculture, 1267
 in fine arts, 1285
 in health education, 1294
 in home economics, 1281
 in industrial arts, 1289
 in language arts, 1268
 in mathematics, 1270, 1300
 in physical education, 1256
 in science, 1271
 in social studies, 1244
 in technical education, 1302
 nature of, 1251
 in social sciences measurement, 2467(a)
 as teaching objective, 1259
 UNESCO, psychology in, 3682
 Union (labor), membership in, psychological
 effects, 3219
 social psychology, 3225
 United Nations, social psychology &, 4068
 United States, Disciplinary Barracks, 2650
 foreign propaganda in, 1185
 group relations, 2740
 military psychology World War II, 1731
 Orientals in, 1955
 psychological warfare, 2408
 vs. Ancient Rome, growth of, 3650
 United States Employment Service, counseling,
 2443
 guidance contributions, 4131
 United States Military Academy, selection of
 cadets, 4584(a)
 United States National Defense Research Coun-
 cil, Applied Psychology Panel, 1731
 University of North Carolina, publications,
 bibliography, 1728
 Urban, children, vs. rural, ability, 3765(a)
 opinions, vs. rural, 3669
 residents, group affiliation, 2733
 society vs. primitive, 1576
 Urticaria, psychogenic, 3572
 Uruguay, vocational guidance program, 4130
 Valence, & certainty of choice, 2312
 Valentine, Willard Lee, obituary, 2847
 Validity, criterion problem, 308, 988
 index of, 1928
 Value, affective modification, 2161
 American culture & schizoid individual,
 1084
 effect on behavior, 1184
 & facts, 4182
 judgment, relativism, 197
 measurement of, 1550
 in motivation, role of, 2583
 perception, organizing factor in, 2107
 purposive in behavior, 4203
 situation, & intergroup contacts, 1175(a)
 in sociology, vs. objectivism, 4518
 striving behavior, 1
 Van Gogh, Vincent, mental illness, 4091
 Variable (statistics), logarithmic plotting,
 1726
 & moments, distribution, 3348
 qualitative, analysis, 4209(a)
 random, moments of, 3356
 significance of difference, 3351
 Variance analysis, covariance, 18
 in educational problems, 1629
 estimating by successive differences, 4215
 formulas, 1725
 in put vs. out-put errors, 4181(a)
 mean moving range, 1352
 in military research, 3800
 Wishart distribution in, 1350
 Variation, coefficient of, 1723
 by logarithms, 1727
 Vaso-response, alcohol vs. tobacco, 3391
 Vectometer for visual training, 3412
 Vegetarian, psychology of, 1923
 Venereal disease, of criminal women, 1598
 psychiatric characteristics of patients,
 1480(a)
 Veratrine, effect on muscular excitability, 1442
 Verbal, aptitude, relations of, 2942
 facility, & personality, 3487
 testing, 1597
 memory, brain lesion, 165
 response, excess, & personality, 3147
 thought expression, & recall, 1811
 Verification, in sociological writing, measure-
 ment, 2718
 Vertibrates, migration, 82
 Vertigo, neural basis, 2135
 pathology of, 2135
 Vestibule, after sensations, secondary, 4286
 impaired, & sound localization, 3886
 nausea from, & epinephrine, 4299
 stimulation & motion sickness, 2952

- Veteran, achievement, college, 2470
anxiety at separation, 3042
blind, rehabilitation, 1118
childhood, & military adjustment, 813
civilian, adjustment of, 3639
 readjustment, group psychotherapy, 3598
college achievement of, 613(a), 2476, 2477, 4655
 in chemistry, 4642
criminality, 223
demobilization, emotional problems, 3042, 3639
educational problems, 2026
group guidance methods, 2269
hearing defects of, 3440
intolerances of, 4525(a)
job phobia, 2678
mental health, 466
neuropsychiatric, childhood factors, 813
 civilian adjustment, 3529
 home adjustment, 115
 mental hygiene, 777
 problems, 490, 1906
personality, 1157
psychoneurosis, 3554
 group therapy, 2259
 incidence, 461
 work adjustment, 4118
psychosis in, vs. civilian, 4453
rehabilitation, follow-up, 1250
 mental deficiency, 465
 of neuropsychiatric, in South, 3600
scholarship, 1305
social adjustment, 1934
student-personnel work &, 2430
vs. non-veteran, college achievement, 4655
 in chemistry, 4642
vocational advisement, result, 3728
 counseling procedures, 3278
 guidance, 255, 909, 1282
World War II, counseling survey, 2025(a)
World War I, vocational adjustment, 1663
Veterans Administration, advisement units, use of tests, 2521
clinical psychologist, in mental hygiene clinic, 2281
 in psychiatric program, 3375
 selection, 2295
 training program, 2271, 2298, 2300
 Menninger, 4228
clinical psychology, research needs, 2280
counseling program, 4042, 4129
guidance center, 607
mental hygiene clinic, 1081
neuropsychiatric program, 1906, 2964, 3117, 3518
psychiatrist, training program, 2988
rehabilitation program, 1108
Vibration, nervous system reflexes, effect, 434, 1050
 of reading material, effects, 4621(a)
 sensation of, 1793
 sense, apparatus, 1718
 in diabetes, 1770
 measuring, method, 4247
 & Parkinsonian syndrome, 1095
 vs. tactile sense, 2884
Vinci, da, Leonardo, psychosexuality, 2549
Vineland Social Maturity Scale, 184, 3773
Vineland Training School, internship program, 1373
Violence, in game, 2341
Virginia, certification of psychologists, 1381
Viscera, reactions, & labyrinth reflex, 1838
Vision (see also Color vision, Space perception, Stereocopy), 1764, 2581
 adaptation, color, 1398(a)
 age, 73
 aids, optical, 1017
 aircraft panels, effects, 4617
 altitude, effects, 2894
 apparent motion, 1402
 & atmospheric "boil," 3430
 axes, direction, after duction, 2901
 binocular, fusion, color, 3429
 reaction time, 4256
 & vergence, 4267
 monocular dominance, range finding, 42
 summation, neural, 3433
 target size, 4268
 theory, 1790, 4277
 unocular stimulus patterns, 32
 vergence & apparent distance, 4266
 biochemistry, theory, 3416
 & body sway, 1046, 3455
 in brain lesion, 1393, 1394
 brightness vs. area, 4253(a)
 thresholds, 1405, 3866
 child, school survey, 2134
 & strabismus, 4269
 clarity, under nembutal, 4282
 clinics in industry, 2009
 constant current, effects, 2896
 contrast, & area, target detection, 1027(a)
 brightness, boundary, 2891
 light stimulation, 43
 reduction by atmosphere, 1016(a)
 sensitivity, anoxia, 34
 size of object, 1018(a)
 threshold, 1012, 1013(a)
 corneal reflections test, 1407
 cortical vs. peripheral factors, 2893
 cyclofusion, measurement, 80
 discrimination, learning, 4333(a)
 ease, illumination, review, 390
 efficiency, & blinking frequency, 1396
 experience, & painting, 1768
 fatigue, 1395(a), 3868(a)
 & acuity, 3844(a)
 & blinking rate, 3408, 3425
 illuminants &, 3867(a)
field, in children, 3845
 in hysteria, 3845
 & perception of direction, 2577
 size, & illumination, 3431
flicker, moving objects, 40
foveal, "blue" vs. "green," 1800
fusion frequency, & brain lesion, 4262(a)
hallucinations, & brain lesions, 2221
handbook, 4280
illumination requirements, 2899
illusion, horizontal-vertical, 3413
image, obsessional, case, 3989
inclination estimation, 4275(a)
in industry, 1614, 3256, 3709
 care, efficiency, 254
 research, 2140
learning, after blindness, 4348(a)
light-adapted eye, 2568
light flashes, symptom complex, 1409
measuring instruments, comparison, 4283(a)
motion acuity, peripheral, 4273
movement, apparent, autokinetic, 4270
 perception, in flight, 2881
nerve fiber, unilateral anophthalmia, 388
neural pathways, 1794
 midbrain, 2124
night, acuity, Japanese, Caucasian, 378
 aviation, colored signal lights, 249
 dark adaptation, 379
 sky, brightness, 47
 testing, 379
 training, testing, 33
perception, birds, & problem solving, 3035
 delayed, 1795
 distance, vs. dimension, 2889
 indefinite forms, 35
 in landing aircraft, 3253
 Lissajous figures, 3414
 ontogeny, 3861, 3865
 performance & fatigue, illuminants &, 3867(a)
 stimulus pattern, 32
 & suggestion, 3472
 suppression, 1413
peripheral, acuity & dark adaptation, 2898
 form acuity in, 2897
 test, 45
phoria, detection, 1400
 & photographic graininess, 3420
rangerfinder (see Rangerfinder)
reaction time, motor action potentials, 2860(a)
reading, comprehension, 272
 retention test, clinical, 4659
retina, sensory mechanisms, textbook, 3846
retinal image of point source, 3851(a)
reversibility, Lissajous figures, 3414
review, 1944-45, 689
sensation, electrically induced, 4251
sex differences, range finding, tracking, 265
small angles, color blindness, 3848(a)
standards for jobs, 1620
Stiles-Crawford effect, 1411
stimuli, suppression, 1413
symbolism & suggestion, 3472
 & syphilis of nervous system, 1114
 & telescope construction, 1765
test data, analysis, 271
theory, psychophysics, Aristotle, 387
threshold, & anoxia, 3847(a)
 brightness, 1405, 3866
 electric, of eye, 4250
 factors in, 3409
 flash exposure, 3426
 for graininess, 3420
 & hypoglycemia, 2126
 illumination, 1026
 in methemoglobinemia, 1397
 & retinal summation, 3409
 & ultraviolet, 3435
 visible angle, 385(a)
training, 1391, 1401
 apparatus, 3412
 pointer method, 2574
ultraviolet radiation, 44
visual purple, concentration, 1805
 quanta, 1804
Visual acuity,
 anoxia &, 3858
 brightness discrimination, 1022(a)
 depth perception, 382
 exercise &, 3855
 & fatigue, 3844(a)
 flash exposure, 3426
 high brightness, 3419
 hyperventilation &, 3856
 & intelligence, 1802
 measurement, blurred tests, 3424
 metrazol, effect, 3857
 monocular, measuring, 2117
 for moving object, 2572
 peripheral vs. central, 45, 3862
 pupil diameter, effect, 3859
 reliability of instruments, 3872
 & retinal elements, 1773
 stereo-, 61, 4264, 4265
 test, brief, 3870
 white vs. red light, 2127
Visual aids, film, values of, 1670
 for industry, mental hygiene, 1606
 in mental hygiene teaching, 4479
Visual defects, from anoxia, & glucose, 1786
 child, school survey, 383, 2129
 congenital, 55
 corrected, discomfort, 2143
 & head injuries, 377
 hypermetropia, 1010
 in military prisoners, 2122
 myopia, training, 705
 & nervous system, 1753
 & night vision, 4257
 orthoptic training, 1798
 presbyopia, 369
 psychoneurotic, 1011, 3043, 3044, 3046, 3057, 3064, 3065, 3068
 restricted field, neural basis, 2124
 special education, 3752
Visualization, navigational, sonar selection, 4097
Vitalism, theory, 974
Vitamin, A, & color vision, 36, 1414
 & nerve degeneration, 2564
 B, & intelligence, 84
 mental performance, 4295
 motor performance, 77
 personality, 84, 426(a)
 physical performance, 4295
 deficiency, & dark adaptation, 3869
 mental disorder, 116, 3521
Vocabulary, of college student, 1645
 development, reading, 1643
 flight instructor's, 1998
 test, Stanford-Binet vs. Wechsler, 920(a)
 tests, intelligence, 920(a)
 & verbal relation factor, 4365(a)
 vs. interests, 4613(a)
Vocalization, sub-, in learning reading, 3464
Vocation, adjustment to, neurotics, engineering, 281
 & personality, 4392
 psychoneurotic veterans, 4118
 veteran, World War I, 1663
choice, high school, vs. intelligence, 3230(a)
 Japanese-American high-school seniors, 3177
 socioeconomic factors, 1623(a)
 clerk, English usage test, 874

- education for, 4165
 engineering, education, tests, 297
 neurotics, adjustment, 281
 testing project, 297
 factory vs. office evaluation, 1617
 frequency in communities, 4556
 goals, impracticable, 3726
 intelligence differences, 4367(a)
 interests, job qualification inventory, 1295, 2472
 Kuder, 885, 1295
 & D.O.T., 3229
 va. Strong, 1286
 tests, validity, 907, 2463, 2475
 Jung's types in different, 4379
 musician, blood pressure, 99
 personality differences, 1534
 & personality, Rorschach, 1929
 psychologist, 969, 970, 1372
 of relief clients, 4558(a)
 rehabilitation (see Rehabilitation)
 religious, guidance, 917
 social status rankings, Canada, 4615
 success in, & life satisfaction, 4320
 supervisor, success, prediction, 250
 transit operator, selection, manual, 860
 Vocational Guidance, agencies, Boston, 4614(a)
 aptitude testing in, 2788
 Association (see National Vocational Guidance)
 avoidance of work, 3719
 Belgium, 1255
 bibliography, 1660, 2033
 college women, 4125
 contemporary problems, 4124
 counseling, aptitude for, 913(a)
 group technique, 611
 manual, 623(a)
 non-directive, 2018, 3725
 counselor consistency, 4226(a)
 interests & efficiency, 4225(a)
 qualifications, 504
 selection, 1299
 critique, France, 3730
 & delinquent boys, 1265
 Dictionary of Occupational Titles, 2021
 employment certificate in, 2456
 epileptic child, 2664
 ethics of practice, 4126
 in France, 1291
 George-Barden Act, 4127
 in groups, 906(a), 4123
 guide, 1301
 handicapped, blind, 376
 handicrafts, 1246
 hearing &, 3440
 high school student, 1283, 3727
 importance of, Mexico, 4608
 industrial film, 1668
 industry vs. school, 3249
 information form, 912
 interests, engineering students, 4612(a)
 interest inventory, Cleiton, 2028
 Juvenile Employment Service, Great Britain, 883
 Kuder Preference Record in, 3244
 in Montreal Schools, 900(a)
 of more able, 3723
 personal factors in, 1653
 personality pattern in, 4392
 placement services, 910
 post-war youth, 4418
 of prisoners, 845, 2412
 rural youth, 3729
 school record card in, 3731
 self-help manual, 915, 2019
 & social case work, 2471(a)
 survey (address), 4133
 technique for measure job satisfactions, 3724
 techniques, 2459(a)
 tests in, 2479(a)
 unrealistic vocational goals, 3726
 Uruguay, 4130
 U.S.E.S. contributions, 4131
 veteran, 255, 909, 1282
 procedures, 3228
 results, 3728
 survey, 2025(a)
 V. A. program, 4129
 Voice, change, adolescents, 2506
 disorders, personality, 784(a)
 listener reaction to, 1581(a)
 loss of, 2242
 & stomatology, 2614
 Vomiting, neural basis of, 2179
 of pregnancy, etiology, 2644
 in pregnancy, psychogenic, 2245
 Voting, influence, electorate size, statistics, 3802
 Voyeurism, of pseudo-humbugs, 1924
 Waitress, relations to public, 2016
 Wakefulness, effects of drugs, 3922(a)
 enforced, rat, 1828
 fatigue from, 3923(a)
 Wald's equation, 4218
 War, aggression as cause, 4294
 bond, drive, social psychology, 2406
 -boom, community, children in, 1571
 casualty, psychiatric, 141
 causes, 2729
 statistical analysis, 4049
 child attitude toward, 3503
 training in respect to, 4420
 combat judgment, factors in, 4066
 consequence, optimism, personality, 818
 & crime, 3702
 effect on attitudes, 1583
 effect on children, 3509, 4502
 effects on child group behavior, 3499
 effort, British, attitude, college student, citizen, 195
 emotional effects, college women, 1579
 equipment problems, psychological studies, 2536
 guilt trials, psychology in, 3700
 morale (see Morale)
 myths, analysis of, 3657
 neurosis, 1877
 analysis of, 3058, 3059
 concepts, 1878
 conditioned response, 119
 employment, 571
 incidence, War I, II, 451
 review, 1944-5, 795
 prisoner, mental disorder, 1107
 psychiatry, 1851
 influence, 1145
 World War II, 1907
 psychological aspects, 2354
 warfare (see Psychological warfare)
 psychologist, survey, 336
 & race relations, Hawaii, 4536
 social necessity, 4562
 psychology, 3671
 weariness, combat aviators, 4045
 War Relocation Authority, social scientists &, 840
 Wartime education program, implications, 1254
 savings, survey of, 1177
 Wasp, behavior differences between species, 3896
 mating behavior, 3905
 Water, fear of, in children, 3500
 legends, mother symbolism, 441
 spray, induced seizure, rat, 770
 Watson, Goodwin, portrait, 1003
 Wayne County Training School, program for high grade defectives, 3002
 Weaning, effect on personality development, 3955
 Weather, & suicide rate, 3519
 Wechsler-Bellevue Scale, anxiety indicators, 1122
 brain lesion, 307(a), 471, 1467(a)
 diagnostic testing, criticism, 3119
 diagnostic value, schizophrenia, 1866
 group, in prisons, 561
 military use, 155
 old age, results, 2297
 in psychiatric diagnosis, 462(a), 1121
 short forms, 1313
 subtests, item placement, 628
 vs. revised Army Beta, 1680
 Weights, lifted, judgment scale and practice, 3406
 Weininger, Otto, psychoanalytical study, 2090, 3790
 Welfare workers, child, qualifications, 320
 Western Psychological Association, proceedings, meeting, 1946, 335
 Western State Psychiatric Institute, admission policy, 1916
 Internship program, 1380
 Wife, child-concept, cultural factors, 2392
 Will, freedom vs. determinism, 4183
 Winter V.A. Hospital, Topeka, Kan., 2282
 Wireworms, chemical sense, responses, 3405
 Wishart distribution, 1350
 Witch, belief, trials, child in, 2817
 in Kasha society, 3660
 Witchcraft, Indian, New Mexico, 3179
 Witmer, Lightner, clinical psychology, 2545
 Woman, appearance, & male impotence, 3979
 artistic expression, psychoanalysis, case, 2959
 business teachers, interest patterns, 1277
 college, effect of war, 1579
 leadership, 4514
 vocational needs, 4125
 criminal, 1598
 & menopause, 4573
 frigidity, cause, 1478
 in industry, 1224
 forewoman, New Zealand, 570
 hours of work, efficiency, 5736, 4582
 intelligence, 2343
 homosexuality in, 2984
 legal status, government, attitude, 209
 living alone, problem, 2704
 menopausal, personality study, 1485
 menopause (see Menopause)
 mental hospital parolee, 5-year study, 1890
 mental hygiene, 779
 Negro, college achievement, & socio-economic status, 4542(a)
 promiscuous, 1913
 psychoanalytic study by men, 2601
 psychologist, career, 969, 970, 1372
 psychology of, 3136, 3137
 psychosexual development, 2173
 psychosomatic problems, 2634
 response to poetry, 1590, 1591
 teacher, emotional problems, 1641(a)
 unmarried, sex behavior, 3152
 vocation & personality, 1534
 worker, married, 569
 Woodworth, R. S., portrait, 1369
 psychological system, critique, 3790
 Worcester State Hospital, internship program, 1382
 Word, association, lists, evaluation, 556(a)
 blindness, & handwriting, 4649
 in case records, measurement, 2360
 evaluation, rating scale, 270
 flow, speed of, 1669
 homograph, choice, masculinity-femininity index, 825
 learning, remedial reading, 273
 meaning, audience, variation, Roosevelt speech, 1939(a)
 in Kuder Preference Record, 885
 psychology of, 1587
 & recognition vocabulary, 1645
 sentence, speech perception test, 1410(a)
 series, line analysis, expression types, 810
 usage, diagnostic use, 1164
 Word Association Test, record analysis, 814
 response type distribution, 4387
 Work, avoidance behavior, 3719
 camps, value of, 3759
 capacity, evolution of, 1612
 change of shift, 861
 climate &, 2176
 conditions, grievance, displacement, 576
 decrement, heat, telegraphy operators, 583
 efficiency, airplane controls, position, shape, color, 592(a)
 of disabled, 2014, 2778
 at high altitude, 3456
 incentive, butter wrappers, 248
 physiology, research, Germany, 859
 eye, decrement, 74
 hand markings &, 1227
 hours of, women, 3236, 4582
 human limits, 1840
 mental fatigue results, 3908
 output & calorie intake, 1235
 over-, intellectual, & neurasthenia, 3041
 physiology of, review of, 3820
 play, child, rural, 194
 repetitive, interest, boredom, 1240
 social factors, 2397
 Worker, age, education, test score, 901
 clerical, & employment agencies, 1236
 deafness, efficiency, 236
 disabled, efficiency, 2778
 hand markings, occupational, 1227
 industrial music, attitude toward, 1615
 manual skill, time study, 227
 older, job placement, 2001

selection, factors, 1239
underprivileged, motivation, 1986
woman, married, 569
World, public opinion, reporting agencies, 2359
reconstruction, eugenics, talent, 211
situation, youth, conflict, 200
World Test, as projective technique, 2317
Writer's cramp, in psychotics, 3035

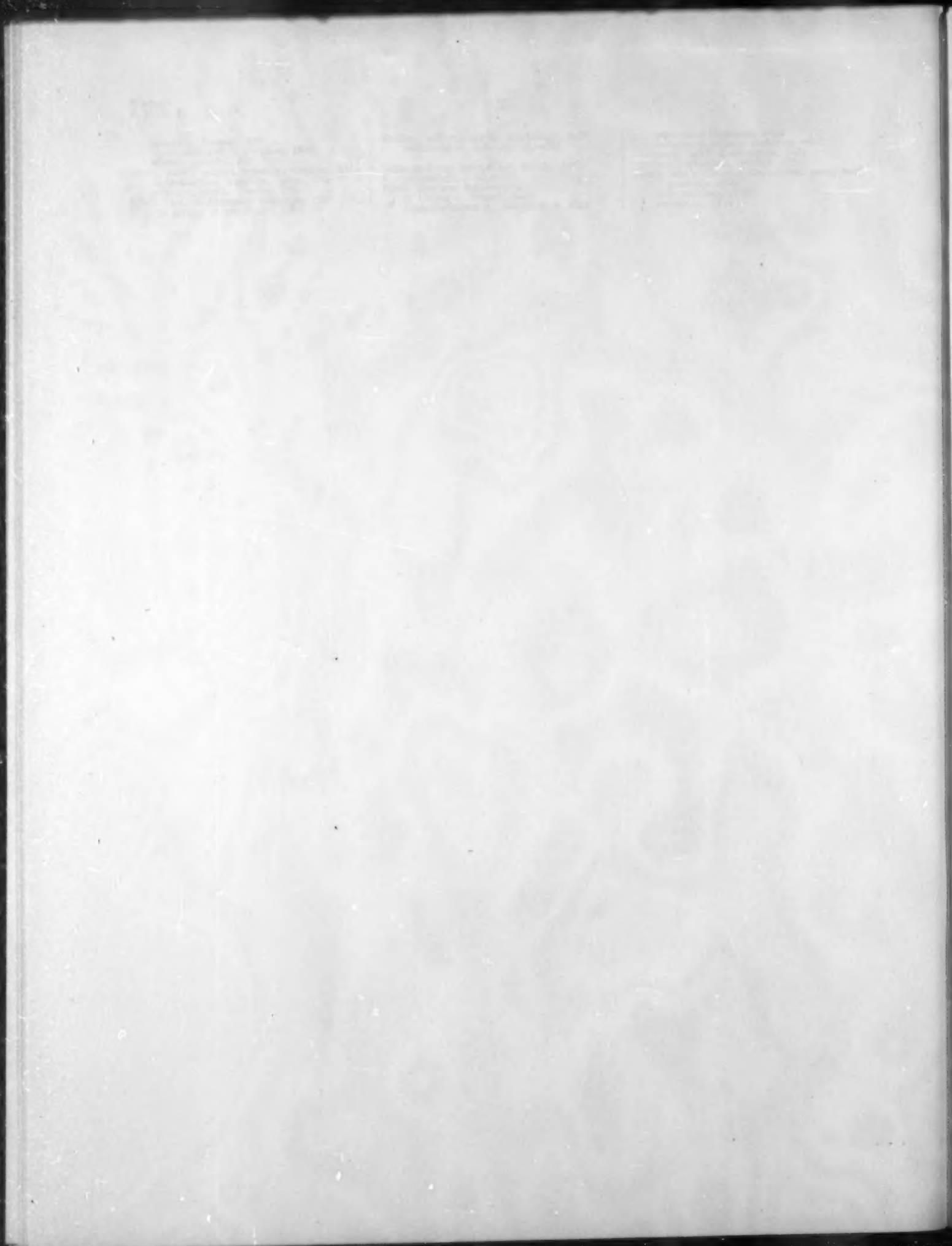
Writing, abbreviated, in psychology, 2557
psychological, difficulty of, 4194

Yoga, auditory perceptions, mystic, 3895
psychology, 3784, 3791
Youth (see also Adolescence)
in Germany, history, 3491
Japanese-American, relocation &, 4054

post-war adjustment, 4418
refugee, vocational problems, 4418
social needs & education, 2458
world situation, conflict, 200
Young Men's Christian Association, group work
problems, 2738
race relations, 2722
recreation, 2738

PSYCHOLOGICAL ABSTRACTS

Year	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910	2911	2912	2913	2914	2915	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